WR	-3:	5		
Rev	(9-	1	1)

DATE:	9/4/2012	J.
API#:	47-033-05465	

Farm name: Lowe, Francis and Nancy	Operator Well	No.: Wagner U	nit 1H	
LOCATION: Elevation: 1214'	Quadrangle: West Milford			
District: Union Latitude: 8777' Feet South of 39 Deg.		.00 Sec	······································	
Longitude 597' Feet West of 80 Deg.	25 Min.	. <u>00</u> Sec	:.	
Company: Antero Resources Appalachian Corp				
Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 55#	534'	534'	742 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2438'	2438'	993 Cu. Ft. Class A
Date Permit Issued: 09/08/2010	5-1/2" 20#	13,536'	13,536'	3338 Cu. Ft. Class H
Date Well Work Commenced: 1/6/2011		Тор	Bottom	
Date Well Work Completed: 5/18/2011	Cmt Plug	6355'	6555'	100 Cu. Ft. Class A
Verbal Plugging: N/A				
Date Permission granted on: N/A	2-3/8" 4.7#	7019'		
Rotary Cable Rig				·
Total Vertical Depth (ft): 7067' TVD (deepest po	int drilled)			
Total Measured Depth (ft): 13,537' MD, 7067' TVI	(BHL)			
Fresh Water Depth (ft.): 40'	*Due to air dri		as unable to ide	
Salt Water Depth (ft.): *None available	accurate salt w	ater and coal o	depths for repor	ting.
Is coal being mined in area (N/Y)? N	Ţ		REC	EIVED
Coal Depths (ft.): *None available				Oil & Gas
Void(s) encountered (N/Y) Depth(s) N, N/A				
				1' 1 2012
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay 2	ons please included	de additional da 1894' TVD (Tot	ata on separate s	heet)
Gas: Initial open flow MCF/d Oil: Initial open fl	low ^{N/A} Bł	ol/d #==	L, MA Neb	artment of
Final open flow 8031 MCF/d Final open flow			nvironmer	ntal Protection
Time of open flow between initial and final tests N/A	Hours			
Static rock Pressure 3200 psig (surface pressure) af	ter Hour	rs		
Second producing formation Pay zo	ne depth (ft)			
Gas: Initial open flow MCF/d Oil: Initial open fl		ol/d		•
Final open flow MCF/d Final open flow		l/d		
Time of open flow between initial and final tests				
Static rock Pressurepsig (surface pressure) at	terHour	rs .		
I certify under penalty of law that I have personally examined	and am familiar	with the inforr	nation submitted	d on this document and
all the attachments and that, based on my inquiry of those indi-	viduals immedia	itely responsibl	e for obtaining	the information I believ
that the information is true, accurate, and complete.			l i	
The known	· · · · · · · · · · · · · · · · · · ·		1/4/12	
bignatufe			Pate'	

Were core samples taken? Yes1	No X Were o	cuttings caught during drillin	ng? Yes X No
Were Electrical, Mechanical or Geophysi Compensated Neutron/Photo Density/Dual Laterolog, G	ical logs recorded on this well? If	yes, please list Yes - Cement	Bond Log/Gamma Ray/CCL Log
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING DETAILED GEOLOGICAL RECO COAL ENCOUNTERED BY THE W	PUT THE FOLLOWING: 1, PHYSICAL CHANGE, ETC. 2 RD OF THE TOPS AND BO	2). THE WELL LOG WH TTOMS OF ALL FOR	ICH IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stimu	alating:		
Perforations: 7117' - 13,468' MD			
Frac'd w/ 5,000 gals 15% HCL A	cid,110,258 bbls Slick Wate	er carrying 444,600# 1	00 mesh,
2,057,500# 40/70 and 1,217,800#	# 20/40 sand.		
		THE RESIDENCE OF THE PERSON OF	
Plug Back Details Including Plug Type a	nd Donth(c): ALLA		
Plug Back Details including Flug Type a	nu Deptit(s). N/A		
Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			
Dr. T.	4 4 5 9 1	10721	
Big Lime	1453' 1973	1972' 2115	
Fifty Foot S.S. Gordon	2116	2382	
Fifth Sandstone	2383	2435	
	2436	3089	
Bayard	3090	3305	
Speechley Balltown	3306	3815	
Bradford	3816	4482	
	4483	4786	
Benson	4787	5013	
Alexander Elk	5014	5541	
	5542	6225	•
Rhinestreet	6226	6303	
Sycamore	6304	6500	
Sonyea	6501	6567	
Middlesex	6577	6632	
West River	6633	6661	
Genundewa	6662	6689	
Burket		6814	
Tully	6690	6893	
Hamilton	6815	7040' T	VI)
Marcellus	6894	/ 0 4 0 1	γν

DATE:	9/4/2012	J.
API#:	47-033-05466	

Farm name: Lowe, Francis and Nancy	Operator Well	No.: Wagner Un	nit 2H	
LOCATION: Elevation: 1214'	_ Quadrangle: _V	Vest Milford		
District: Union Latitude: 8762' Feet South of 39 Deg. Longitude 597' Feet West of 80 Deg.		.00 Sec		<u> </u>
Company: Antero Resources Appalachian Corp	1 contract	TT1.	T . 0 :11	To(51)
Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 55#	525'	525'	728 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2462'	2462'	1002 Cu. Ft. Class A
Date Permit Issued: 09/08/2010	5-1/2" 20#	13,997'	13,997'	3464 Cu. Ft. Class H
Date Well Work Commenced: 1/12/2011				
Date Well Work Completed: 5/31/2011	2-3/8" 4.7#	7183'	RE	CEIVED
Verbal Plugging: N/A			Office	of Oil & Gas
Date Permission granted on: N/A			0 ==	
Rotary Cable Rig			SEI	P 1 1 2012
Total Vertical Depth (ft): 7050' TVD (deepest po	pint drilled)		\AA/De	nortmont of
Total Measured Depth (ft): 13,997' MD, 7050' TV	D (BHL)		TO VICTORIA	partment of
Fresh Water Depth (ft.): *None available	*Due to air dril			ental Prote ctio
Salt Water Depth (ft.): 2494'	accurate fresh	water and coal	depths for repo	rting.
Is coal being mined in area (N/Y)? N	1			
Coal Depths (ft.): *None available				
Void(s) encountered (N/Y) Depth(s) N, N/A				
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open flow 13,034 MCF/d Final open flow Time of open flow between initial and final tests N/A Static rock Pressure 3200 psig (surface pressure) at	zone depth (ft <u>) (</u> flow N/A Bb w N/A Bb Hours	5 <u>872' TV</u> D (To _l 51/d 1/d		heet)
Second producing formationPay zo Gas: Initial open flowMCF/d Oil: Initial open flow Time of open flow between initial and final tests Static rock Pressurepsig (surface pressure) at	low Bb w Bb Hours			
I certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of those indithat the information is true, accurate, and complete.				

Were core samples taken? Yes_	No_X	Were cutti	ings caught during d	rilling? Yes	No X
Were Electrical, Mechanical or G	eophysical logs recorded	l on this well? If yes	s, please list Yes - Cer	nent Bond Log/Gamm	a Ray/CCL Log
This is a subsequent well. Antero only runs wireline	logs on the first well on a multi-pad (Wa	gner Unit 1H API# 47-033-05465). Please reference wireline logs	submitted with Form WR-35	for Wagner Unit 1H.
NOTE: IN THE AREA BE FRACTURING OR STIMULA DETAILED GEOLOGICAL COAL ENCOUNTERED BY T	ATING, PHYSICAL C RECORD OF THE T	HANGE, ETC. 2). TOPS AND BOTT	THE WELL LOG'OMS OF ALL F	WHICH IS A SY	STEMATIC
Perforated Intervals, Fracturing, o	or Stimulating:				
Perforations: 7308' - 13,930	····				
Frac'd w/ 5,750 gals 15% H		bls Slick Water o	carrying 471,100	# 100 mesh,	
2,260,300# 40/70 and 1,34	3,800# 20/40 sand.			· · · · · · · · · · · · · · · · · · ·	
Plug Back Details Including Plug	Type and Denth(s): NU			· · · · · · · · · · · · · · · · · · ·	
1 lug Dack Details meluding 1 lug	, Type and Depin(s). M/	<u> </u>			
Formations Encountered: Surface:		Top Depth		Bottom I	<u>Depth</u>
***	6 204!		6,669'		
**Sycamore	6,204' 6,670'		6,791		
Tully Hamilton	6,792'		6,871'		
Marcellus	6,872'		7,050'	TVD	
**Antero only runs wireline logs on the first we	ell on a multi-well pad (Wagner U	nit 1H). Since this is a subs	equent well, our logging sta	rted at the top of the Sy	camore. Therefore,
we are unable to accurately identify formation to	ps from surface. Please reference	the additional formation tops	submitted on Form WR-351	for the Wagner Unit 1H (A	NPI# 47-033-05465).
					LL LIVE
					*
			12110		
			JAMA		

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	9/4/2012	Af
API#:	47-033-05467	

Farm name: Lowe, Francis and Nancy			Operator Well No.: Wagner Unit 3H			
LOCATION: Elevation: 1214			_ Quadı	rangle: West Milfo	ord	<u>-</u>
District: Union			Coun	ty: Harrison		
Latitude: 8762'	Feet South of 39	Deg.	15	Min. 00	Sec.	

District: Union	County: Harris	on	<u></u>	
	g. 15 Min			
Longitude 607' Feet West of 80 De	g. 25 Min	.00 Sec.		
Company: Antero Resources Appalachian Corp				
Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 68#	535'	535'	742 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2468'	2468'	1005 Cu. Ft. Class A
Date Permit Issued: 09/08/2010	5-1/2" 20#	13,960'	13,960'	3450 Cu. Ft. Class H
Date Well Work Commenced: 3/25/2011				
Date Well Work Completed: 5/22/2011	2-3/8" 4.7#	7281'	nra	IVED
Verbal Plugging: N/A			AEV	Oil & Gas
Date Permission granted on: N/A			Ouice or	9 1.
pate 1 minutes and a second			SEP	1 1 2012
Rotary Cable Rig			1 251	
Rotary Cable Rig Total Vertical Denth (ft): 7031' TVD (deepest p	point drilled)			1.08
Total Vertical Denth (ff). 7031' TVD (deepest p				artment of
Total Vertical Depth (ft): 7031' TVD (deepest p		lling, Antero w		artment of
Total Vertical Depth (ft): 7031' TVD (deepest protection of the Total Measured Depth (ft): 13,960' MD, 7031' Total Measured Depth (ft.): *None available	VD (BHL) *Due to air dri accurate fresh	lling, Antero w water, salt wat		Million 1
Total Vertical Depth (ft): 7031' TVD (deepest properties of the Total Measured Depth (ft): 13,960' MD, 7031' Total Measured Depth (ft.): *None available Salt Water Depth (ft.): *None available	VD (BHL) *Due to air dri	lling, Antero w water, salt wai	MV Det	Million 1
Total Vertical Depth (ft): 7031' TVD (deepest properties of Total Measured Depth (ft): 13,960' MD, 7031' Total Measured Depth (ft.): *None available Salt Water Depth (ft.): *None available Is coal being mined in area (N/Y)? N	VD (BHL) *Due to air dri accurate fresh	lling, Antero w water, salt wat	MV Det	Million 1
Total Vertical Depth (ft): 7031' TVD (deepest property of the state of	VD (BHL) *Due to air dri accurate fresh	llling, Antero w water, salt wat	MV Det	Million 1
Total Vertical Depth (ft): 7031' TVD (deepest properties of Total Measured Depth (ft): 13,960' MD, 7031' Total Measured Depth (ft.): *None available Salt Water Depth (ft.): *None available Is coal being mined in area (N/Y)? N	VD (BHL) *Due to air dri accurate fresh	lling, Antero w water, salt wat	MV Det	Million 1
Total Vertical Depth (ft): 7031' TVD (deepest protection of the content of the co	*Due to air dri accurate fresh reporting. ations please inclusive zone depth (ft) fin flow N/A Blow N/A Blow N/A Blow N/A Blow N/A Blow N/A Hours	ide additional di 5864' TVD (Top ol/d	WW Der	ths for
Total Vertical Depth (ft): 7031' TVD (deepest producing formation Marcellus Froducing formation Marcellus Gas: Initial open flow MCF/d Oil: Initial open formation for point of open flow between initial and final tests Note that the point of th	*Due to air dri accurate fresh reporting. ations please inclusive zone depth (ft) fin flow N/A Blow N/A Blow N/A Blow N/A Blow N/A Blow N/A Hours	ide additional di 5864' TVD (Top ol/d	WW Der	ths for
Total Vertical Depth (ft): 7031' TVD (deepest protection of the producing formation of open flow between initial and final tests process in the producing formation of open flow between initial and final tests producing formation of the producing formation of the producing formation of the producing formation open flow of the producing formation open flow	*Due to air dri accurate fresh reporting. ations please inclusive zone depth (ft) NA Blow N/A Blow N/A Hours O after Hours zone depth (ft)	ide additional di 5864' TVD (Top ol/d	WW Der	ths for
Total Vertical Depth (ft): 7031' TVD (deepest processes and producing formation prince) Total Measured Depth (ft.): *None available Salt Water Depth (ft.): *None available Is coal being mined in area (N/Y)? N Coal Depths (ft.): *None available Void(s) encountered (N/Y) Depth(s) N, N/A EN FLOW DATA (If more than two producing formation Marcellus Producing formation Marcellus Producing formation MCF/d Oil: Initial open from time of open flow between initial and final tests Static rock Pressure 3200 psig (surface pressure) Second producing formation Pay Gas: Initial open flow MCF/d Oil: Initial open from time of producing formation Pay Gas: Initial open flow MCF/d Oil: Initial open from time of open flow MCF/d Oil: Initial open flow MCF/d Oil: Initial open flow MCF/d Final op	*Due to air dri accurate fresh reporting. ations please inclusive zone depth (ft) In flow N/A Bl I/A Hours I after Hou zone depth (ft) I flow Bl I/A Bl I/A Hours I After Bl I/A Hours I After Bl I/A Bl I/A Bl I/A Hours I After Bl I/A Bl I/	ide additional di 5864' TVD (Top ol/d	WW Der	ths for
Total Vertical Depth (ft): 7031' TVD (deepest processed producing formation page 13,960' MD, 7031' Total Measured Depth (ft.): *None available Salt Water Depth (ft.): *None available Is coal being mined in area (N/Y)? N Coal Depths (ft.): *None available Void(s) encountered (N/Y) Depth(s) N, N/A EN FLOW DATA (If more than two producing formation Marcellus Producing formation Marcellus Producing formation MCF/d Oil: Initial open formation open flow between initial and final tests N Static rock Pressure 3200 Second producing formation Pay Gas: Initial open flow MCF/d Oil: Initial open flow MC	*Due to air dri accurate fresh reporting. ations please inclusive zone depth (ft) A Hours A Hours A after Hours D after B Hours A Hou	ide additional d 5864' TVD (Top bl/d surs bl/d bl/d	WW Der	ths for

I cert all th that the information is true, accurate, and complete.

Were core samples taken? Yes	No.X	Were cuttings caught d	luring drilling? Ye	sNoX
Were Electrical, Mechanical or Geoph This is a subsequent well. Antero only runs wireline logs on	ysical logs recorded on this	s well? If yes, please list_	Yes - Cement Bond Log	g/Gamma Ray/CCL Log
NOTE: IN THE AREA BELOV FRACTURING OR STIMULATIN DETAILED GEOLOGICAL REC COAL ENCOUNTERED BY THE	W PUT THE FOLLOW NG, PHYSICAL CHANG CORD OF THE TOPS A	VING: 1). DETAILS E, ETC. 2). THE WELI AND BOTTOMS OF A	OF PERFORAT LLOG WHICH IS ALL FORMATIO	ED INTERVALS, S A SYSTEMATIC
Perforated Intervals, Fracturing, or Sti	mulating:			
Perforations: 7418' - 13,898' M				
Frac'd w/ 5,000 gals 15% HCL	***************************************	ck Water carrying 37	78,700# 100 me	esh,
2,383,200# 40/70 and 1,392,60	00# 20/40 sand.		41-5	
Plug Back Details Including Plug Typ	e and Depth(s): N/A			
The state of the s				
Formations Encountered: Surface:	Top Der	oth /	Вс	ottom Depth
**Tully	6,664'		6,785'	46.50
Hamilton	6,786'		6,863'	
Marcellus	6,864'		7,031' TVD	
**Antero only runs wireline logs on the first well or	a multi-well pad (Wagner Unit 1H).	. Since this is a subsequent well,	our logging started at the	top of the Tully. Therefore,
we are unable to accurately identify formation tops from				
				·
	MANAGE			-
1.040				
	10-11			
				•
			•	

DATE:	9/4/2012	- Ju
API #:	47-033-05506	

Farm name: I.L. Morris & Mike Ross, Inc.	Operator Well	No.: Richman U	nit 2H	
LOCATION: Elevation: 1169'	Quadrangle:	Volf Summit		
District: Coal	County: Harris	on		
Latitude: 3584' Feet South of 39 Deg.				
Longitude 10,931' Feet West of 80 Deg.		oo Sec.		
Company Antero Resources Appalachian Corp				
Company: Andrew Resources Apparatement Corp Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 68#	489'	489'	679 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2554'	2554'	1040 Cu. Ft. Class A
Date Permit Issued: 01/28/2011	5-1/2" 20#	13,610'	13,610'	3331 Cu. Ft. Class H
Date Well Work Commenced: 6/8/2011				
Date Well Work Completed: 10/26/2011	2-3/8" 4.7#		EIVED	
Verbal Plugging: N/A		Omice o	fOil® Ga	\$
Date Permission granted on: N/A		SEP	1 1 7012	
Rotary Cable Rig				
Total Vertical Depth (ft): 7086' TVD (Deepest poi		WV Dep	artment o	
Total Measured Depth (ft): 13,610' MD, 7,043' TV	D (BHL) E	nvironme	ntal Drotor	**
Fresh Water Depth (ft.): *None available	*Due to air dr	illing, Antero	was	
Salt Water Depth (ft.): 1137'	I .	ntify accurate	fresh	
Is coal being mined in area (N/Y)? N	water and coare	al depths for		
Coal Depths (ft.): *None available	reporting.			
Void(s) encountered (N/Y) Depth(s) N, N/A				
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay 2 Gas: Initial open flow MCF/d Oil: Initial open flow Time of open flow between initial and final tests N/A Static rock Pressure 3300 psig (surface pressure) af	zone depth (ft) 7 iow N/A Bb N/A Bb Hours	,046' TVD (Top ol/d I/d	ta on separate sk o)	neet)
Second producing formationPay zon				
Gas: Initial open flow MCF/d Oil: Initial open flow				
Final open flow MCF/d Final open flow		vu .		
Time of open flow between initial and final tests Static rock Pressure		S		
I certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of those individual that the information is true, accurate, and complete.	and am familiar	with the inform		
- TV IV IV IV IV		- -]	hath	

Were core samples taken?	YesNo	X -	Were o	uttings caught o	luring drilling	? YesN	o_X
Were Electrical, Mechanical	I or Geophysica wireline logs on the first v	al logs recorded or vell on a multi-pad (Reynolds	1 this well? If :	yes, please list_ 451). Please reference w	Yes- Cement Bo	nd Log/Gamma Ray	y/CCL Log
NOTE: IN THE AREA FRACTURING OR STIM DETAILED GEOLOGIC COAL ENCOUNTERED	A BELOW P MULATING, P CAL RECORI	UT THE FOLI PHYSICAL CHA D OF THE TO	LOWING: 1) NGE, ETC. 2 PS AND BO	DETAILS THE WELI TOMS OF A	OF PERFO LOG WHIC ALL FORM	RATED INTE	CRVALS,
Perforated Intervals, Fractur	ring, or Stimula	ting:					
Perforations: 7321' - 13	· · · · · · · · · · · · · · · · · · ·						
Frac'd w/ 4,750 gals 15			Slick Water	carrying 445	5,000# 100	mesh,	
1,985,800# 40/70 and 1	1,263,500# 2	20/40 sand.					
N	***************************************						
1 20100	WAL - 7			\$			
Plug Back Details Including	Plug Type and	Depth(s): N/A	***************************************				
			ev vices as in				
					1.50		717.4
Formations Encountered: Surface:		Top	Depth	/		Bottom Depth	<u>l</u>
Surface.							
**Sycamore		6,3	65'		6,833'		
Tully		6,8	34'		6,961'		·
Hamilton		6,96	32'		7,045'		
Marcellus		7,04	46'		7,086' T\	/D	
		-			A 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
**Antero only runs wireline logs on the f	first well on a multi-w	ell pad (Reynolds Unit 1	H). Since this is a su	ibsequent well, our k	ogging started at th	ne top of the Sycamore	e. Therefore,
we are unable to accurately identify forma	ation tops from surface	e. Please reference the a	dditional formation to	ps submitted on Form	WR-35 for the Rey	nolds Unit 1H (API# 47	-033-05451).
		"			·····		
		N-11					

							,
							,
							,

DATE:	9/4/2012	
API #:	47-033-05538	

Farm name: Posey, Larry and Martha LOCATION: Elevation: 1107'	Quadrangle:	No.: Colly Unit 1		RECEIVED Office of Oil & G
District: Coal Latitude: 11,845 Feet South of 30 Deg. Longitude 10,411 Feet West of 80 Deg.		00 Sec.		SEP 18 (012
Longitude 10,411 Feet West of 80 Deg. Company: Antero Resources Appalachian Corp	<u> </u>	sec.		WV Department
Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	43'	43'	41 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 54.5#	485'	485'	674 Cu. Ft. Class A
Inspector: Tristan Jenkins	10.8" 36#	2479'	2479'	1009 Cu, Ft. Class A
Date Permit Issued: 04/19/2011	5-1/2" 20#	15,096'	15,096'	3767 Cu. Ft. Class H
Date Well Work Commenced: 07/01/2011				
Date Well Work Completed: 03/10/2012	2-3/8" 4.7#	7078'		
Verbal Plugging: N/A				·
Date Permission granted on: N/A				
Rotary Cable Rig				
Total Vertical Depth (ft): 7,018' TVD (Deepest po	1			
Total Measured Depth (ft): 15,110' MD, 6,957' TV	D (BHL)			
Fresh Water Depth (ft.): 485'		rilling, Antero		
Salt Water Depth (ft.): *None Available	1 '	rate salt water	and coal de	oths
Is coal being mined in area (N/Y)? N	for reporting			
Coal Depths (ft.): *None Available				
Void(s) encountered (N/Y) Depth(s) N, N/A				
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay 2 Gas: Initial open flow MCF/d Oil: Initial open flow Time of open flow between initial and final tests N/A Static rock Pressure 3300 psig (surface pressure) af	zone depth (ft) 6 low N/A B N N/A Bb Hours	5,987' TVD (To bl/d _l l/d		sheet)
Second producing formation Pay zo. Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) and	w Bb Hours		4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
I certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of those indit that the information is true, accurate, and complete. Signature	and am familiai viduals immedi	with the informately responsible	nation submittee for obtaining	ed on this document and g the information I believe

Were core samples taken? Yes	No_X	ere cuttings caught during drilling? Yes_	No_X
Were Electrical, Mechanical or Geopl	nysical logs recorded on this well	? If yes, please list Yes - Cement Bond Log/G	
Compensated Neutron/Photo Density/Dual Laterolo	g, Gamma Ray/Array Induction/Temperature		
FRACTURING OR STIMULATI	NG, PHYSICAL CHANGE, ET CORD OF THE TOPS AND	E: 1). DETAILS OF PERFORATE CC. 2). THE WELL LOG WHICH IS A BOTTOMS OF ALL FORMATION CE TO TOTAL DEPTH.	A SYSTEMATIC
Perforated Intervals, Fracturing, or St	mulating:		
Perforations: 7,340'- 15,032' M	D ·		
Frac'd w/ 11,500 gals 15% HC	Acid, 172,251 bbls Slick	Water carrying 813,900# 100 me	sh,
3,756,500# 40/70 and 2,403,10	00# 20/40 sand.		
the state of the s			
			4.50-4.10-
Plug Back Details Including Plug Typ	e and Depth(s): N/A		
4.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	14//		
T	Tan Douth	/ Pott	om Depth
Formations Encountered: Surface:	Top Depth	/ Bott	ош Берш
	1,420'	1,517'	
Big Lime- Big Injun-	1,518'	1,879'	
Gantz Sand-	1,880'	1,970'	
Fifty Foot Sandstone-	1,971'	2,140'	
Gordon-	2,141'	2,408'	
Fifth Sandstone-	2,409'	3,097'	
Speechley-	3,098'	3,300'	
Balltown-	3,301'	3,782'	
-	3,783'	4,429'	
Bradford-		4,738'	
Benson-	4,430'	4,941'	
-Alexander-	4,739'		
Elk-	4,942'	5,503'	
Rhinestreet-	5,504'	6,750'	
Burket -	6,751'	6,776'	
-Tully Ls-	6,777'	6,900°	
Hamilton -	6,901'	6,986'	
Marcellus -	6,987'	6,998'	
Purcell-	6,999'	7,016'	
Cherry Valley Ls-	7,017'	7,016'	
Onondaga Ls-	7,000'	7,018'	

		68
DATE:	9/4/2012	
API#:	47-033-05539	

LOCATION: Elevation: 1107'	_ Quadrangle: _C	Clarksburg		· ·
District: Coal	County: Harris	on		
Latitude: 11,850 Feet South of 39 Deg.	20 Min.	00 Sec		
Longitude 10,402 Feet West of 80 Deg	. 20 Min.	OO Sec	•	
Company: Antero Resources Appalachian Corp				
Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	42'	42'	40 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 54.5#	465'	465'	692 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2447'	2447'	1016 Cu. Ft. Class A
Date Permit Issued: 04/19/2011	5-1/2" 20#	15,084'	15,084'	3761 Cu. Ft. Class H
Date Well Work Commenced: 07/02/2011				EACILIES.
Date Well Work Completed: 03/16/2012	2-3/8" 4.7#	7146'		ECEIVED
Verbal Plugging: N/A			 	of Oil & G
Date Permission granted on: N/A			S	EP 1 1 2012
Rotary Cable Rig				
Total Vertical Depth (ft): 7,048' TVD (Deepest po	oint drilled)		WVD	epartment
Total Measured Depth (ft): 15,084' MD, 6,952' T\	/D (BHL)		<u>F</u>UVIr Onn	ental Proto
Fresh Water Depth (ft.): *None available		1 -111		
Salt Water Depth (ft.): *None available		-	ro was unable vater, sait wat	
Is coal being mined in area (N/Y)? N		s for reporting	•	
Coal Depths (ft.): *None available		·		
Void(s) encountered (N/Y) Depth(s) N, N/A				
(010(0) 011000110101 (1 // 2 / P III/ 0 /				
OPEN FLOW DATA (If more than two producing formati	zone depth (ft)_7 flow_N/A	7,019' TVD (To bl/d l/d		heet)
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow 11,186 MCF/d Final open flow Time of open flow between initial and final tests N/A Static rock Pressure 3300 psig (surface pressure) a	zone depth (ft)_7 flow_N/A	7,019' TVD (To bl/d l/d		heet)
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open flow 11,186 MCF/d Final open flow Time of open flow between initial and final tests N/A Static rock Pressure 3300 psig (surface pressure) a Second producing formation Pay zo Gas: Initial open flow MCF/d Oil: Initial open flow MCF	zone depth (ft) 7 flow N/A Bb w N/A Bb Hours fter Hour one depth (ft) flow Bb	7,019' TVD (To bl/d l/d s s		heet)
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open flow Time of open flow between initial and final tests N/A Static rock Pressure 3300 psig (surface pressure) a Second producing formation Pay zo	zone depth (ft) 7 flow N/A Bb w N/A Bb Hours fter Hour one depth (ft) Bb w Bb	7,019' TVD (To bl/d l/d s s		heet)

	Y		٧
Were core samples taken? Yes		Were cuttings caught during drill	
Were Electrical, Mechanical or Geophy. This is a subsequent well. Antero only runs wireline logs on	y sical logs recorded on this we the first well on a multi-pad (Colly Unit 1H AP)	ell? If yes, please list Yes- Cement # 47-033-05538). Please reference wireline logs su	t Bond Log/Gamma Ray/CCL Log bmitted with Form WR-35 for Colly Unit 1H.
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATIN DETAILED GEOLOGICAL REC COAL ENCOUNTERED BY THE	G, PHYSICAL CHANGE, I ORD OF THE TOPS AN	ETC. 2). THE WELL LOG W D BOTTOMS OF ALL FOR	HICH IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stin	nulating:		
Perforations: 7311' - 15,016' ME			
Frac'd w/ 11,500 gals 15% HCL		k Water carrying 824,000#	100 mesh,
3,660,800# 40/70 and 2,330,70	0# 20/40 sand.		
· -			
Plug Back Details Including Plug Type	and Depth(s): N/A		
Formations Encountered: Surface:	Top Depth	 	Bottom Depth
**Sycamore	6,235'	6,79	2'
Tully	6,793'	6,92	5'
Hamilton	6,926'	7,01	8'
Marcellus	7,019'	7,04	8' TVD
**Antero only runs wireline logs on the first well on a	multi-well pad (Colly Unit 1H). Since th	is is a subsequent well, our logging started	at the top of the Sycamore. Therefore,
we are unable to accurately identify formation tops from	surface. Please reference the additiona	I formation tops submitted on Form WR-35 for	the Colly Unit 1H (API# 47-033-05538).
			
	A CONTRACTOR OF THE CONTRACTOR		

DATE:	9/4/2012	
API#:	47-033-05550	

Rarm name: I.L. Morris & Mike Ross, Inc.	Operator Well	No.: Richman Ur	nit 1H	
LOCATION: Elevation: 1169'	Quadrangle:	Volf Summit		
District: Coal	County: Harris	on		
Latitude: 3594' Feet South of 39 Deg.	20 Min.	oo Sec.		
Longitude 10,929' Feet West of 80 Deg.	25 Min.	oo Sec.		
Company: Antero Resources Appalachian Corp				
Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 68#	474'	474'	658 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2511'	2511'	1440 Cu. Ft. Class A
Date Permit Issued: 05/24/2011	4" 11.6#	7003'	7003'	303 Cu. Ft. Class H
Date Well Work Commenced: 6/4/2011	5-1/2" 20#	13,758'	13,758'	3382 Cu. Ft. Class H
Date Well Work Completed: 4/17/2012			PPAPI	
Verbal Plugging: N/A	2-3/8" 4.7#	7170'	RECEIV	
Date Permission granted on: N/A			ffice of Oil	o Gas
Rotary Cable Rig			SEP 112	U12
Total Vertical Depth (ft): 7,102' TVD (Deepest po	int drilled)			
Total Measured Depth (ft): 13,758' MD, 7,045' TV	D (BHL)		V Departr	
Fresh Water Depth (ft.): 980'	*Due to air di	Envir	onmental	Drntonsin-
Salt Water Depth (ft.): *None available		ntify accurate		
Is coal being mined in area (N/Y)? N	water and coa	al depths for		
Coal Depths (ft.): *None available	reporting.	!		
Void(s) encountered (N/Y) Depth(s) N, N/A				
			4	
OPEN FLOW DATA (If more than two producing formation Producing formation Producing formation Pay 2	ons please included zone depth (ft) 7	ne additional da 7,056' TVD (To	ita on separate si p)	ieet)
Gas: Initial open flow MCF/d Oil: Initial open fl		ol/d		
Final open flow 672 MCF/d Final open flow		l/d		
Time of open flow between initial and final tests N/A	Hours			
Static rock Pressure 3300 psig (surface pressure) at	fterHour	rs .		
Second producing formationPay zo	ne depth (ft)			
Gas: Initial open flowMCF/d Oil: Initial open f		ol/d		
Final open flow MCF/d Final open flow		l/d		
Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) at		ra		
Static rock Pressurepsig (surface pressure) at	110ui	.5		
I certify under penalty of law that I have personally examined				
all the attachments and that, based on my inquiry of those indi-	viduals immedia	itely responsible	e for obtaining th	ie information I believe
that the information is true, accurate and complete.		~1	AI 8	
The know		41:	4/12	
Signature		/	Dåte	

Were core samples taken? Yes	No X	cuttings caught during dril	ling? Yes X No
Were Electrical, Mechanical or Geophysic This is a subsequent well. Antero only runs wireline logs on the first	cal logs recorded on this well? It st well on a multi-pad (Reynolds Unit 1H API# 47-033-0	yes, please list	nitted with Form WR-36 for Reynolds Unit 1H.
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING, DETAILED GEOLOGICAL RECOI COAL ENCOUNTERED BY THE WI	PHYSICAL CHANGE, ETC. 2 RD OF THE TOPS AND BO	2). THE WELL LOG W OTTOMS OF ALL FO	HICH IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stimu	lating:		
Perforations: 7282' - 13,640' MD			
Frac'd w/ 5,000 gals 15% HCL Ac		r carrying 29,900# 10	0 mesh,
1,833,041# 40/70 and 86,000# 20	/40 sand.		
Plug Back Details Including Plug Type and	nd Depth(s): N/A	e	······································
Formations Encountered: Surface:	Top Depth		Bottom Depth
**Tully	6,852'	6,97	77'
Hamilton	6,978'	7,05	55'
Marcellus	7,056'	7,10	02 TVD
**Antero only runs wireline logs on the first well on a mu	ulti-well pad (Reynolds Unit 1H). Since this i	s a subsequent well, our logging s	arted at the top of the Tully. Therefore,
we are unable to accurately identify formation tops from surf			
		·	
			
	4 444 494 494 494 494 494 494 494 494 4		
	44		

DATE:	March 8, 2012	
API#:	47-095-02021	
		-

nrm name: Roger Weese	Operator Well			
OCATION: Elevation: 767'	_ Quadrangle: _S	timicy		
District: McElroy	County: Tyler			
Latitude: 39.424081 Feet South of 39 Deg. Longitude -80.80935 Feet West of 80 Deg				
Longitude -00.00000 Peet West of _00Deg	,. <u></u> IVIIII.	566	•	
Company: Triad Hunter, LLC	_	and a limp parties.	· ·	
Address: P.O. Box 430	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Reno, Ohio 45773				
Agent: Kimberly Arnold	20"	80'	80'	
Inspector: Joe Taylor	13 3/8"	442.1'	442.1'	402 cu. ft.
Date Permit Issued: 05/04/2011	9 5/8"	2783.47"	2783.47'	1292 cu. ft.
Date Well Work Commenced: 09/03/2011	5 1/2"	12130.18'	12130.18	3361.15 cu. ft.
Date Well Work Completed: 12/18/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Z Cable Rig				
Total Vertical Depth (ft): 6370'				
Total Measured Depth (ft): 12150'				
Fresh Water Depth (ft.):			·	
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 740-741, 1055-1057; 1159-1160, 1202-1204; 1218-1220, 1245-1244	8' 1358'-1360', 1515'-1518'			
Void(s) encountered (N/Y) Depth(s) None				
			<u> </u>	
OPEN FLOW DATA (If more than two producing format			PC A	
Producing formation Marcellus Shale Pay Gas: Initial open flow 1416 MCF/d Oil: Initial open	zone depth (ft) (ft) (ft) zone depth (ft) (ft)	bl/d		And the second s
Final open flow 7883 MCF/d Final open flow				
Time of open flow between initial and final tests 435				No. of the second
Static rock Pressure 2437 psig (surface pressure) a	after <u>439 </u>	rs	ويتمر	77 40 Min
Second producing formationPay z	one depth (ft)	,		n de la companya de La companya de la co
Gas: Initial open flow MCF/d Oil: Initial open		/. bl/d		
Final open flow MCF/d Final open flo		ı/d		And the second second second
Time of open flow between initial and final tests				· · · · · · · · · · · · · · · · · · ·
Static rock Pressurepsig (surface pressure) a	after Hou	rs		
certify under penalty of law that I have personally examined	l and am familia	with the infor	mation submitted	d on this document
Il the attachments and that, based on my inquiry of those ind	lividuals immedi	ately responsib	le for obtaining	the information I b
nat the information is true, accurate, and complete.		_		
12 12-		·	# ~ 1 Z_	
Signature			An t. com.	

Were core samples taken? Yes	SNo Were cutting	ngs caught during drilling? YesNo							
Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list									
NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.									
Perforated Intervals, Fracturing,	or Stimulating:								
Please refer to attached pe	erforation and fracture treatment repo								
Plug Back Details Including Plu	g Type and Depth(s):								
Formations Encountered: Surface:	Top Depth	/ Bottom Depth							
0'-400' sand and shale	1204'-1218' shale	1880'-2035' shale							
400'-410' shale	1218'-1220' coal	2035'-2313' sand/shale/siltstone							
410'-430' silty shale	1220'-1245' shale	2313'-2315' Berea							
430'-740' shale	1245'-1248' coal	2315'-2753' Fifth Sand							
740'-741' coal	1248'-1358' shale	2753'-3230' Shale							
741'-945' shale	1358'-1360' coal	3230'-3270' Warren							
945'-985' sand	1360'-1515' shale and sand	3270'-4397' Shale							
985'-1055' shale	1515'-1518' coal	4397'-4429' Riley							
1055'-1057' coal	1518'-1520' shale	4426'-4484' Shale							
1057'-1115' shale	1520'-1585' Maxton	4484'-4486' Benson							
1115'- 1155' sand	1585'-1605' shale	4486'-6296' Shale							
1155'-1159' shale	1605'-1625' Little Lime	6296'-6335' Hamilton							
1159'-1160' coal	1625'-1635' Pencil Cave	6335'-6378' Tully							
1160'-1202' shale	1635'-1720' Big Lime	6378' Marcellus							
1202'-1204' coal	1720'-1881' Big Injun								

Perf Spacing for 18 stages **Everett Weese 1107**

Stage Length:
Num Clusters:
Dist between Perfs:
Perf length:
Stages:
Start Depth:
90 @:

292'
4 to 5
73'
3'
18
12135'
6872'

Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage			
18	17	16	15	14	13	12	11	10	9	8	7	6	. 5	4	3	2	1			30 W.
7121	7413	7705	7997	8289	8581	8873	9165	9457	9749	10041	10333	10625	10917	11209	11501	11793	12135	Plug Depth		2/00
7086'-7083'	7378'-7375'	7670'-7667'	7962'-7959'	8254'-8251'	8546'-8543'	8838'-8835'	9130'-9127'	9422'-9419'	9714'-9711'	10006'-10003	10298'-10295	10590'-10587	10882'-10879	11174'-11171	11466'-11463	11758'-11755	11899'-11896	Interval 1		
7013'-7010'	7305'-7302'	7597'-7594'	7889'-7886'	8181'-8178'	8473'-8470'	8765'-8762'	9057'-9054'	9349'-9346'	9641'-9638'	9933'-9930'	10298'-10295' 10225'-10222'	10517'-10514'	10882'-10879' 10809'-10806'	11174'-11171' 11101'-11098'	11393'-11390'	11758'-11755' 11685'-11682'	11889'-11886'	Interval2		
6940'-6937'	7232'-7229'	7524'-7521'	7816'-7813'	8108'-8105'	8400'-8397'	8692'-8689'	8984'-8981'	9276'-9273'	9568'-9565'	9860'-9857'	10152'-10149'	10590'-10587' 10517'-10514' 10444'-10441'	10736'-10733'	11028'-11025'	11466'-11463' 11393'-11390' 11320'-11317' 11247'-11244	11612'-11609'	11869'-11866'	Interval 3		
6867'-6864'	7159'-7156'	7451'-7448'	7743'-7740'	8035'-8032'	8327'-8324'	8619'-8616'	8911'-8908'	9203'-9200'	9495'-9592'	9787'-9784'	10078'-10076	10371'-10368	10663'-10660	10955'-10952	11247'-11244	11539'-11536	11849'-11846' 11833'-11	Interval 4		
		The state of the s				, management						-					11833'-11830'	Interval 5		
292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	342	Stage Length	FT	
6736	6270		6861	6997	7077	7070	7167	7338	7295	7442	7360	7687	7388	7615	7603	7375	7593	Avg Treating Pressure	PSI	
7908	8197	8126	8077	8549	8637	8624	8547	8638	8140	8400	8102	7876	8134	7650	8265	7671	7900	Max Pressure	PSI	
79.3	80.9	79.5	80.3	82.5	82.4	82.5	84.6	83.4	87.2	84.4	81.7	79.6	82.6	84.3	85.1	81.6	80	Avg Rate	вРМ	
82.7	83.7	82.8	82.7	84.9	84.7	84.4	80.6	87.4	88.3	86	83.6	84.2	84.8	85.6	86.9	84.2	85	Max Rate	вРМ	
8097	8220	8151	8075	8174	7888	7836	8146	7753	7230	8254	8222	8206	8325	7909	8430	8580	11420	Fluid Vol	bbls	
427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	4178	427000	Total Sand	lbs	

DATE:	March 8, 2012	
API#:	47-095-02022	

Farm name: Roger Weese		Operator Well No.: Everett Weese 1108								
LOCATION: Elevation: 767'		Quadrangle: Shirley								
District: McElroy		County: Tyler								
Latitude: 39.424892 Feet Se	outh of 39 Deg.	25 Min.								
Longitude 80.8099394 Feet W	Vest of 80 Deg.	48 Min.	33.82 Sec							
Company: Triad Hunter, LLC										
Address: P.O. Box 430		Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.					
Reno, Ohio 45773										
Agent: Kimberly Arnold		20"	80'	80'						
Inspector: Joe Taylor		13 3/8"	441.16'	441.16'	408 cu. ft.					
Date Permit Issued: 05/05/201	1	9 5/8"	2860.01'	2860.01'	1070 cu.ft.					
Date Well Work Commenced:	9/25/2011	5 1/2"	12153.79'	12153.79'	3364.5 cu. ft.					
Date Well Work Completed:	12/15/2011									
Verbal Plugging:										
Date Permission granted on:										
Rotary Cable	Rig	·								
Total Vertical Depth (ft): 636	6'									
Total Measured Depth (ft): 12										
Fresh Water Depth (ft.):										
Salt Water Depth (ft.):										
Is coal being mined in area (N/Y)? No									
Coal Depths (ft.): 740'-741', 1055'-1057', 1159-		1358'-1360', 1515'-1518'								
Void(s) encountered (N/Y) Dep										
OPEN FLOW DATA (If more than two Producing formation Marcellus Shale	o producing formation	ons please includence depth (ft) 6		A Dec	•					
Gas: Initial open flow 2153 MCI	7/d Oil: Initial open fl		ıl/d							
Final open flow 6362 MCF	•		/d	The state of the s						
Time of open flow between initi Static rock Pressure ²¹²⁸ psig	al and final tests 498 (surface pressure) af	Hours ter ⁴⁹⁸ Hour	a	A.Pp						
Static fock i ressurepsig	(surface pressure) ar	ici110ui		Paragonal Control						
Second producing formation		ne depth (ft)			THE STATE OF THE S					
<u>-</u>	7/d Oil: Initial open fl			The Control of the Co						
Final open flow MCF Time of open flow between initi	•	vBbl Hours	/d	ē.						
•	(surface pressure) af		s							
I certify under penalty of law that I have p	nerconally evamined s	and am familiar	with the inform	nation submitted	on this document and					
all the attachments and that, based on my	-									
that the information is true, accurate, and	-			Q ,						
			38	-12						
li .	Signature			Date						
		•			-					

were core samples taken? Yes	were cutt	ings caught during drilling? YesNoNo
Were Electrical, Mechanical or (Geophysical logs recorded on this well? If yes	s, please list
FRACTURING OR STIMUL DETAILED GEOLOGICAL	ATING, PHYSICAL CHANGE, ETC. 2).	DETAILS OF PERFORATED INTERVALS, THE WELL LOG WHICH IS A SYSTEMATIC OMS OF ALL FORMATIONS, INCLUDING TOTAL DEPTH.
Perforated Intervals, Fracturing,	or Stimulating:	
Please refer to attached pe	erforation and fracture treatment repo	ort.
Plug Back Details Including Plu	g Type and Depth(s):	

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
0'-400' sand and shale	1204'-1218' shale	1880'-2035' shale
400'-410' shale	1218'-1220' coal	2035'-2313' sand/shale/siltstone
410'-430' silty shale	1220'-1245' shale	2313'-2315' Berea
430'-740' shale	1245'-1248' coal	2315'-2753' Fifth Sand
740'-741' coal	1248'-1358' shale	2753'-3230' Shale
741'-945' shale	1358'-1360' coal	3230'-3270' Warren
945'-985' sand	1360'-1515' shale and sand	3270'-4397' Shale
985'-1055' shale	1515'-1518' coal	4397'-4429' Riley
1055'-1057' coal	1518'-1520' shale	4426'-4484' Shale
1057'-1115' shale	1520'-1585' Maxton	4484'-4486' Benson
1115'- 1155' sand	1585'-1605' shale	4486'-6290' Shale
1155'-1159' shale	1605'-1625' Little Lime	6290'-6327' Hamilton
1159'-1160' coal	1625'-1635' Pencil Cave	6327'-6371' Tully
1160'-1202' shale	1635'-1720' Big Lime	6371' Marcellus
1202'-1204' coal	1720'-1881' Big Injun	Secret description of the Arrange Land

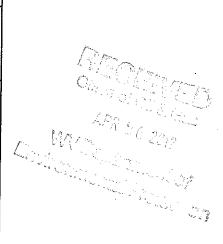
基整件 人类¹⁰⁰

3

Everett Weese 1108 Perf Spacing for 16 stages

Stage Length:
Num Clusters:
Dist between Perfs:
Perf length:
Stages:
Start Depth:
90 @: 296' 4 to 5 74'

3). 70	th: 12:			•
7031	12155'	16	ω	•



					_	-			_		_	_	_	_	_	_	_	_	_		_	_	_	_	_	
	Stage	2	Stage	Stage	agenc	Ct - 0-	Stage	Stage	Spic	Stanc	Stage	ageic		Stage	Spore	Ctomp	Stage	Stage		Stage	Stage	1	Stage			-
	5	1	15	14	12	ן נ	13	11	F	3	9	×		7	٥	Į	5	4	Т	٤ ا	_ 2	Τ	_			_
	159/	10.1	7947	8243	8539	0530	8835	9131	1745	0/17	9723	GTOOT	3030	10315	TOOT	10611	10907	TT203	12.00	11499	11795		12155	Plug Depth	2	
	/616'-/613'	7046 7040	7912'-7909'	8208'-8205'	8504-8501	0500 0707	9800'-8797'	9096'-9093'	2227 -2285	02021 02001	9688'-9685'	9984-9981	20041 2021	10280'-10277'	S/COT- 0/COT	105761 105731	10872'-10869'	11168'-11165'	TOTAL TOTAL	11464'-11461'	11760'-11757'	11000	120381-120351	interval 1		
	7542'-7539'	7030-7033	7829, 7035,	8134'-8131'	8430-8427	C7/0-07/0	12776, 3773	9022'-9019'	9318-9315	0240, 0242,	1196-1719b	9910'-9907'	10200	10206'-10203'	TO207 - TO499.	10001 101001	10798'-10795'	11094'-11091'	/OCTT. ACCTT	11300'_11207'	11686'-11683'	C0071 21021	12012, 12000,	Interval2		
	7468'-7465'	10//- 40//	77641 77641	8060-8057	8356'-8353'	6400- 7000	0657 0640	8948'-8945'	9244'-9241'	2240-2227	95/10, 9527,	9836'-9833'	C2TOT - 7CTC2	10123'_10130'	10428-10425 10354-10351	40.001 40.001	10724'-10721' 10650'-10647	11020'-11017' 10946'-10943	11242 - 11242 - 11242 - 11239	113161 113171	11612'-11609'	OCCIT. CCCTT	11052) 11050	Interval 3		
	7394'-7391'	/84/-069/	7000 7007	7986'-7982'	8282'-8279'	65/6-85/5	מרקסי מרקדי	8874'-8871'	9170'-9167'	2400-3405	0/66/ 0/63/	9762'-9759'	CCOOT - OCOOT	10050, 10055,	10354'-10351'	TOOL TOOL	10650'-10647'	10946'-10943'	T1242-11239	140401 140001	11538'-11535'	14971- +6011		interval 4		
																						10835-11834	מחסב) לבחסם	Interval 5		
	296	296	250	300	296	296	230	305	296	296		296	296		296	230	200	296	296		296	360	Super Ferrigati	Stage ength	FT	
	7211	7884	971/	1400	7116	7164	/200	7200	7341	7361		7386	7843		7551	7353	7701	7813	7811	//03	7700	7675	Allocating Piessure	Ava Tranting Draceura	PSI	
00,0	8579	8690	835/		8511	8107	8228	25.0	8645	8303	+0TO	010/	8578	0010	8643	8548		8173		9/18	0476	8102	IVIAX Pressure	N //	PSJ	
+.+.	7/ /	75	80.9		70	77.8	83	, 6.,	78.7	84	00.0	9,70	73	7.70	V 08	81.7	9	gn n	82.5	84.6		80.4	Avg Kate		BPM	
/J.1	70.4	80	83.1	0.20	97 o	81.2	82.9	57.7	920	87.1	8/.9		83.8	00.0	5 30	85.5	03.2	07.7		87.8	20:0	83 7	Max Rate		BPM	
871C	7420	6899	8245	6710	0100	8089	8161	0343	03/10	8284	8264		8247	/945	70.45	7758	100/	7021	8279	8306	57.7	2728	Fluid Vol	2000	hhls	
212375	1100.0	212375	427000	42/000	127000	427000	427000	42/000	427000	427000	427000		427000	42/000		427000	42/000	427000	427000	427000	000/24	727000	Total Sand	150	he	

DATE:	March 8, 2012	
API#:	47-095-02023	

Farm name: Roger Weese	Operator Well	No.: Everett We	ese 1109	<u> </u>	
LOCATION: Elevation: 767'	Quadrangle: S	hirley			
District: McElroy	County: Tyler				
Latitude: 39.424869 Feet South of 39 Deg.		29.53 Sec	•		
Longitude -80.809436 Feet West of 80 Deg.		33.97 Sec			
Company: Triad Hunter, LLC					
Address: P.O. Box 430	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Reno, Ohio 45773					
Agent: Kimberly Arnold	20"	80'	80'		
Inspector: Joe Taylor	13 3/8"	440.78'	440.78'	408 cu. ft.	
Date Permit Issued: 05/04/2011	9 5/8"	2754.33'	2754.33'	1065 cu.ft.	
Date Well Work Commenced: 10/16/211	5 1/2"	12342.84'	12342.84'	3470 cu. ft.	
Date Well Work Completed: 12/12/2011					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 6369'					
Total Measured Depth (ft): 12342'					
Fresh Water Depth (ft.):					
Salt Water Depth (ft.):					
Is coal being mined in area (N/Y)? No				·	
Coal Depths (ft.): 740-741', 1055-1057', 1159-1160', 1202-1204',1218'-1220', 1245-1248'	1358'-1360', 1515'-1518'				
Void(s) encountered (N/Y) Depth(s) None					
OPEN FLOW DATA (If more than two producing formation	me nlegee inclu	le additional de	ita on senarate s	heet)	
	one depth (ft) 6		iai on separate s		
Gas: Initial open flow 606 MCF/d Oil: Initial open fl	ow_28.80Bt	ol/d		Para Brown	
Final open flow 5918 MCF/d Final open flow	75.55 Bb	l/d	Ĺ		The same of the sa
Time of open flow between initial and final tests 582	Hours		i		J
Static rock Pressure 2507 psig (surface pressure) af	ter ⁵⁸² Hour	'S			
Second producing formation Pay zon	ne depth (ft)			APR 2 (2012	
Gas: Initial open flow MCF/d Oil: Initial open fl		ol/d	į. Ž	M. J. Parkerson and Committee of the Com	
Final open flow MCF/d Final open flow		l/d			Ţ
Time of open flow between initial and final tests	Hours			general de la companya de la compan La companya de la co La companya de la co	
Static rock Pressurepsig (surface pressure) af	terHour	'S			• •
I certify under penalty of law that I have personally examined a					
all the attachments and that, based on my inquiry of those indiv	viduals immedia	itely responsibl	e for obtaining t	he information I believe	
that the information is true, accurate, and complete.					
Kon / Lon		3	1-12		
Signature		_	Date		

Plug Back Details Including Plug Type and Depth(s): Formations Encountered: Surface: 0'-400' sand and shale 1204'-1218' shale 1218'-1220' constitution of the shale 1200'-1245' shale 1200'-1245' shale 1245'-1248' constitution of the shale 1248'-1358' shale 1248'-1358' shale 1358'-1360' constitution of the shale 1358'-1360' constitution of the shale 1358'-1515' shale 1515'-1518' constitution of the shale 1515'-1518' constitution of the shale 1520'-1585' Ministry 1520'-1585' Ministry 1520'-1585' Ministry 1520'-1585' Ministry 1520'-1585' Ministry 1520'-1585' Ministry 1520'-1585' shale 1520'-1585' Ministry 1520'-1	Top Depth hale bale hale oal	/ Bottom Depth 1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand 2753'-3230' Shale
Formations Encountered: Surface: 0'-400' sand and shale 1204'-1218' shale 1400'-410' shale 1410'-430' silty shale 130'-740' shale 140'-741' coal 141'-945' shale 145'-1358' shale 145'-985' sand 158'-1055' shale 1055'-1057' coal 1057'-1115' shale 1150'-1585' M 1115'- 1155' sand 1585'-1605' s	Top Depth hale bale hale oal	/ Bottom Depth 1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
Plug Back Details Including Plug Type and Depth(s): Formations Encountered: Surface: 0'-400' sand and shale 1204'-1218' shale 1400'-410' shale 1218'-1220' condition of the shale in the	Top Depth hale bal hale oal	/ Bottom Depth 1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
Formations Encountered: Surface: 0'-400' sand and shale 400'-410' shale 410'-430' silty shale 430'-740' shale 430'-740' shale 4140'-741' coal 414'-945' shale 415'-1248' coal 416'-985' sand 416'-1515' shale 4165'-1055' shale 4165'-1055' shale 4175'-1115' shale 4175'-1115' shale 4175'-1115' shale 4175'-1155' sand 4175'-1155' sand 4175'-1585' Male 4175'-1155' sand 4175'-1605' s	Top Depth hale bal hale oal	/ Bottom Depth 1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
Formations Encountered: Surface: 0'-400' sand and shale 400'-410' shale 410'-430' silty shale 430'-740' shale 430'-740' shale 4140'-741' coal 414'-945' shale 415'-1248' coal 416'-985' sand 416'-1515' shale 4165'-1055' shale 4165'-1055' shale 4175'-1115' shale 4175'-1115' shale 4175'-1115' shale 4175'-1155' sand 4175'-1155' sand 4175'-1585' Male 4175'-1155' sand 4175'-1605' s	Top Depth hale bal hale oal	/ Bottom Depth 1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
Plug Back Details Including Plug Type and Depth(s): Formations Encountered: Surface: 0'-400' sand and shale 1204'-1218' shale 1400'-410' shale 1218'-1220' condition of the shale in the	Top Depth hale bal hale oal	/ Bottom Depth 1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
Formations Encountered: Surface: 0'-400' sand and shale 1204'-1218' shale 100'-410' shale 1218'-1220' continued to the shale	Top Depth hale bale hale oal	/ Bottom Depth 1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
Surface: 0'-400' sand and shale 1204'-1218' sh 400'-410' shale 1218'-1220' cc 410'-430' silty shale 1220'-1245' sh 430'-740' shale 1245'-1248' cc 740'-741' coal 1248'-1358' sh 741'-945' shale 1358'-1360' cc 945'-985' sand 1360'-1515' sh 985'-1055' shale 1515'-1518' cc 1055'-1057' coal 1518'-1520' sh 1057'-1115' shale 1520'-1585' M 1115'- 1155' sand 1585'-1605' s	Top Depth hale bale hale oal	/ Bottom Depth 1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
Surface: 0'-400' sand and shale 1204'-1218' shale 100'-410' shale 1218'-1220' construction 110'-430' silty shale 1220'-1245' shale 130'-740' shale 1245'-1248' construction 740'-741' coal 1248'-1358' shale 741'-945' shale 1358'-1360' construction 945'-985' sand 1360'-1515' shale 1055'-1057' coal 1518'-1520' shale 1057'-1115' shale 1520'-1585' M 1115'- 1155' sand 1585'-1605' s	hale oal hale oal	1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
Surface: 0'-400' sand and shale 1204'-1218' shale 100'-410' shale 1218'-1220' construction 110'-430' silty shale 1220'-1245' shale 130'-740' shale 1245'-1248' construction 140'-741' coal 1248'-1358' shale 145'-945' shale 1358'-1360' construction 1945'-985' sand 1360'-1515' shale 1055'-1055' shale 1515'-1518' construction 1055'-1115' shale 1520'-1585' M 1115'- 1155' sand 1585'-1605' s	hale oal hale oal	1880'-2035' shale 2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
Surface: 0'-400' sand and shale 1204'-1218' shale 400'-410' shale 1218'-1220' construction 410'-430' silty shale 1220'-1245' shale 430'-740' shale 1245'-1248' construction 740'-741' coal 1248'-1358' shale 741'-945' shale 1358'-1360' construction 945'-985' sand 1360'-1515' shale 1055'-1057' coal 1518'-1520' shale 1057'-1115' shale 1520'-1585' M 1115'- 1155' sand 1585'-1605' s	oal hale oal	2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
1218'-1220' cc 10'-430' silty shale 1220'-1245' sl 130'-740' shale 1245'-1248' cc 140'-741' coal 1248'-1358' sl 141'-945' shale 1358'-1360' cc 145'-985' sand 1360'-1515' sl 185'-1055' shale 1515'-1518' cc 1055'-1057' coal 1518'-1520' sl 1057'-1115' shale 1520'-1585' M	oal hale oal	2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
1218'-1220' cc 10'-430' silty shale 1220'-1245' sl 130'-740' shale 1245'-1248' cc 140'-741' coal 1248'-1358' sl 141'-945' shale 1358'-1360' cc 145'-985' sand 1360'-1515' sl 185'-1055' shale 1515'-1518' cc 1055'-1057' coal 1518'-1520' sl 1057'-1115' shale 1520'-1585' M	oal hale oal	2035'-2313' sand/shale/siltstone 2313'-2315' Berea 2315'-2753' Fifth Sand
10'-430' silty shale 1220'-1245' sl 130'-740' shale 1245'-1248' cc 740'-741' coal 1248'-1358' sl 741'-945' shale 1358'-1360' cc 945'-985' sand 1360'-1515' sl 985'-1055' shale 1515'-1518' cc 1055'-1057' coal 1518'-1520' sl 1057'-1115' shale 1520'-1585' M	hale oal	2313'-2315' Berea 2315'-2753' Fifth Sand
1245'-1248' co 1246'-740' shale 1248'-1358' sl 1248'-1358' sl 1248'-1358' sl 1248'-1358' sl 1358'-1360' co 1360'-1515' sl 1360'-1515' sl 1360'-1518' co 1360'-1518' co 1360'-1518' co 1318'-1520' sl 1360'-1585' Male 1360'-1585' Male 1360'-1585' sand 1360'-1605' sl	oal	2315'-2753' Fifth Sand
740'-741' coal 1248'-1358' sl 741'-945' shale 1358'-1360' co 945'-985' sand 1360'-1515' sl 985'-1055' shale 1515'-1518' co 1055'-1057' coal 1518'-1520' sl 1057'-1115' shale 1520'-1585' M 1115'- 1155' sand 1585'-1605' s		- Control of the state of the s
741'-945' shale 1358'-1360' co 945'-985' sand 1360'-1515' si 985'-1055' shale 1515'-1518' co 1055'-1057' coal 1518'-1520' si 1057'-1115' shale 1520'-1585' M 1115'- 1155' sand 1585'-1605' s	hale	2753'-3230' Shale
945'-985' sand 1360'-1515' s 985'-1055' shale 1515'-1518' co 1055'-1057' coal 1518'-1520' sl 1057'-1115' shale 1520'-1585' N 1115'- 1155' sand 1585'-1605' s	laic	
985'-1055' shale 1515'-1518' co 1055'-1057' coal 1518'-1520' sl 1057'-1115' shale 1520'-1585' M 1115'- 1155' sand 1585'-1605' s	oal	3230'-3270' Warren
1055'-1057' coal 1518'-1520' si 1057'-1115' shale 1520'-1585' M 1115'- 1155' sand 1585'-1605' s	hale and sand	3270'-4397' Shale
1520'-1585' N 1115'- 1155' sand	oal	4397'-4429' Riley
1115'- 1155' sand 1585'-1605' s	hale	4426'-4484' Shale
	laxton	4484'-4486' Benson
	hale	4486'-6286' Shale
155'-1159' shale 1605'-1625' L	ittle Lime	6286'-6323' Hamilton
1159'-1160' coal 1625'-1635' P	encil Cave	6323'-6355' Tully
1160'-1202' shale 1635'-1720' B	ig Lime	6355' Marcelluş
1202'-1204' coal 1720'-1881' B	ig Injun	
		1900 C.
		388 262 202
		₩ William Control of the Control of

Everett Weese 1109 Perf Spacing for 18 stages

Stage Length:
Num Clusters:
Dist between Perfs:
Perf length:
Stages:
Start Depth:

308'
4 to 5
77'
3'
18
12342'

	90 (
l	<u>.</u>
	6916

Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage	'										
18	17	16	15	14	13	12	11	10	9	∞	7	6	5	4	w	2	ш			
7045	7360	7661	7969	8277	8585	8893	9201	9509	9817	10125	10433	10741	11049	11355	11665	11973	12342	Plug Depth		
7008'-7005'	7316'-7313'	7624'-7621'	7932'-7929'	8240'-8237'	8548'-8545'	8856'-8853'	9164'-9161'	9472'-9469'	9780'-9777'	10088'-10085'	10396'-10393'	10704'-10701'	11012'-11009'	11320'-11317'	11628'-11625'	11936'-11933'	12226'-12223'	Interval 1	The state of the s	
6931'-6928'	7239'-7236'	7547'-7544'	7855'-7852'	8163'-8160'	8471'-8468'	8779'-8776'	9087'-9084'	9395'-9392'	9703'-9700'	10011'-10008'	10319'-10316'	10627'-10624'	10935'-10932'	11243'-11240'	11551'-11548'	11859'-11856'	12210'-12207'	Interval2		
6854'-6851'	7162'-7159'	7470'-7467'	7778'-7775'	8086'-8083'	8349'-8391'	8702'-8699'	9010'-9007'	9318'-9315'	9626'-9623'	9934'-9931'	10242'-10239'	10550'-10547'	10858'-10855'	11166'-11163'	11474'-11471'	11782'-11779'	12143'-12140'	Interval 3		
6777'-6774'	7085'-7082'	7393'-7390'	7701'-7698'	8009'-8006'	8317'-8314'	8625'-8622'	8933'-8930'	9241'-92338'	9549'-9546'	9857'-9854'	10165'-10162'	10473'-10470'	10781'-10778'	11089'-11086'	11397'-11394'	11705'-11702'	12075'-12073	Interval 4		
																	12008'-12005'	Interval 5		
808	315	301	308	308	308	308	808	308	308	308	308	308	308	306	310	308	369	Stage Length	FT	
6455	6831	6980	7019	6932	7244	7266	7149	7275	7293	7420	7433	7505	7728	7614	7808	7743	7355	Avg Treating Pressure	PSI	
7646	8326	8123	8039	8082	8330	8282	8378	8480	8525	8359	8632	8239	8004		8779	7803	8104	Max Pressure	PSI	
70.4	81.3	80.8	79.6	82.4	80.4	77.8	80.9	80.5	83.3	83.9	82.6	81.8	81.1	83	82.8	83.7	81.4	Avg Rate	вРМ	
70.7	83	82.9	83.5	84.9	83.1	79.8	86.9	84.2	86.7	86	85.6	82.2	84.6		86.2	86.5	85.2	Max Rate	вРМ	
7705	8204	8086	8178	8158	8044	8088	9844	8394	8304	8860	8295	8252	8252	8220	8318	8505	9600	Fluid Vol	sldd	
427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	Total Sand	lbs	

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE: 04-11-2012 J API#: 47-097-03379 97-03779

Farm name: PHILLIPS, CHARLES G. PAULA	Operator Wel	No.: CHARLES	PHILLIPS 1497/03	41. Cas
LOCATION: Elevation: 1700		BUCKHANNON 7	-	
District: MEADE	County: UPSI	IUR		
Latitude: 38 53 49.9 Feet South of Deg.	Min	. Sec	in the second	Proces
Longitude 80 14 43.6 Feet West of Deg.	Min	Sec	The state of the s	TRUTTER OF
			mass nafilial	
Company: Mountain V Oil and Gas				
Address: P.O. Box 470	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport WV 26330	13 3/8	unning	42	SAND IN
Agent: Mike Shaver	9 5/8		346	130 SK
Inspector: Bill Hatfield	7"		2025	270
Date Permit Issued: 02-24-2011	4 1/2 N 80		7139	150 SK
Date Well Work Commenced: 12-3-2011				
Date Well Work Completed: /2-15-201/				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				. 45
Total Vertical Depth (ft): 7150		Off	108 01 44	2 705
Total Measured Depth (ft): 7150			ATO 100	49
Fresh Water Depth (ft.):	647110		1-1 - V	
Salt Water Depth (ft.):	1350		才:" _{如我的病} 婚性	
Is coal being mined in area (N/Y)?	N	Free VIII	ing a	moterion
Coal Depths (ft.):	N/A	garav at		
Void(s) encountered (N/Y) Depth(s)	<i>N</i>		·	
OPEN FLOW DATA (If more than two producing formation Producing formation MARCELLUS Pay 2 Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure 2650 psig (surface pressure) after the producing formation open flow pays the producing formation pays and pay	one depth (ft) 7 owBi /BbHours	033 - 7139 bl/d l/d	ta on separate sł	neet)
Second producing formation Pay zor				
Gas: Initial open flow MCF/d Oil: Initial open flow		ol/d		
Final open flow MCF/d Final open flow		I/d		
Time of open flow between initial and final tests		rs		•
I certify under penalty of law that I have personally examined a all the attachments and that, based on my inquiry of those individual that the information is true, accurate, and complete.	nd am familiar	with the informately responsible		

GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	Were core samples taken? Yes	sNo_X	Were c	cuttings caught during dri	lling? Yes_X	_No
FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH. Perforated Intervals, Fracturing, or Stimulating: PERFS 7090 - 7130 120 HOLES 3 SHOT P/FOOT SLICK WATER FRACK 15099 BBL H20, 15645 BBL SLURRY 2017 SK 80/100, 3015 SK 40/70, AVG PRESURE 5246 AVG RATE 76.2 Plug Back Details Including Plug Type and Depth(s): Formations Encountered: Top Depth Bottom Depth Surface: Sande Shale GL — /4444 GROUND EL 1700 GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3657 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7076 LOWER MARCELLUS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	Were Electrical, Mechanical or	Geophysical logs recorder	d on this well? If	yes, please list ELECT	RICAL	· · · · · · · · · · · · · · · · · · ·
SLICK WATER FRACK 15099 BBL H20, 15645 BBL SLURRY 2017 SK 80/100, 3015 SK 40/70, AVG PRESURE 5246 AVG RATE 76.2 Plug Back Details Including Plug Type and Depth(s): Formations Encountered: Sand & Shale GL — 14444 GROUND EL 1700 GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7076 LOWER MARCELLUS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	FRACTURING OR STIMUL DETAILED GEOLOGICAL COAL ENCOUNTERED BY	ATING, PHYSICAL C RECORD OF THE T THE WELLBORE FRO	HANGE, ETC. 2 FOPS AND BO	2). THE WELL LOG W TTOMS OF ALL FO	VHICH IS A SVS	STEMATIC
AVG PRESURE 5246 AVG RATE 76.2 Plug Back Details Including Plug Type and Depth(s): Formations Encountered: Top Depth / Bottom Depth Surface: Sande Shale GL - /4444 GROUND EL 1700 GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7076 LOWER MARCELLUS 7076 - 7139	PERFS 7090 - 7130 120 H	IOLES 3 SHOT P/F(тост			
AVG PRESURE 5246 AVG RATE 76.2 Plug Back Details Including Plug Type and Depth(s): Formations Encountered: Top Depth / Bottom Depth Surface: Sande Shale GL - 14444 GROUND EL 1700 GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7076 LOWER MARCELLUS 7076 - 7139						···
Plug Back Details Including Plug Type and Depth(s): Formations Encountered: Top Depth			5 BBL SLURR	Y 2017 SK 80/100,	3015 SK 40/70	0,
Formations Encountered: Top Depth / Bottom Depth Surface: Sande Shale GL — 14444 GROUND EL 1700 GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	AVG PRESURE 5246 AVG	3 RATE 76.2				
Formations Encountered: Top Depth / Bottom Depth Surface: Sande Shale GL — 14444 GROUND EL 1700 GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139						
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Surface: Sande Shale GL — 1444 GROUND EL 1700 GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7076 LOWER MARCELLUS 7076 - 7139						- '
Surface: Sande Shale GL - 1444 GROUND EL 1700 GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139						
GROUND EL 1700 GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139		T	op Depth		Bottom De	epth
GREENBRIER BIG LIME 1445 - 1715 INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	sandi shale	GL - 1444				
INJUN 1445 - 2227 GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	GROUND EL	1700				
GORDON 2227 - 2357 5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	GREENBRIER BIG LIME	1445 - 1715				
5 TH SAND 2397 - 2467 3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	INJUN	1445 - 2227				
3 RD RILEY 3637 - 3678 BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	GORDON	2227 - 2357				
BENSON 4022 - 4081 GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	5 TH SAND	2397 - 2467				
GENESEO SHALE 6879 - 6914 TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	3 RD RILEY	3637 - 3678				
TULLY LS 6914 - 6957 HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	BENSON	4022 - 4081				
HAMILTON SHALE 6957 - 7033 UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	GENESEO SHALE	6879 - 6914				
UPPER MARCELLUS 7033 - 7073 PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	TULLY LS	6914 - 6957				
PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	HAMILTON SHALE	6957 - 7033				
PURCELL LS 7073 - 7076 LOWER MARCELLUS 7076 - 7139	UPPER MARCELLUS	7033 - 7073	· *********			
LOWER MARCELLUS 7076 - 7139	PURCELL LS					-
	LOWER MARCELLUS				, , , , , , , , , , , , , , , , , , ,	
				<u> </u>		

DATE:	04-10-2012	
API#:	47-097-03808	_

Farm name: CUTRIGHT, BOYD	Operator Wel	No.: ANNA CU	RIGHT 2 WV0426			
LOCATION: Elevation: 2072	Quadrangle: ALTON 7.5					
District: MEADE	County: UPSI	HUR				
Latitude: 38.49 32.8 Feet South of Deg.	Min		•			
Longitude 80.12 33.1 Feet West ofDeg	Min	Sec	-			
Company: MOUNTAIN V OIL and GAS						
Address: P.O.BOX BRIDGEPORT WV 26330	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.		
	13 3/8		40	SAND IN		
Agent: Mike Shaver	9 5/8		252	87 SK		
Inspector: Bill Hatfield	7 "		1732	240 SK		
Date Permit Issued: 09-08-2011	4 1/2 N 80		7315	150 SK10-23-2011		
Date Well Work Commenced: 12-20-2011						
Date Well Work Completed: 01-05-2012						
Verbal Plugging:				,		
Date Permission granted on:			THE PROPERTY AND ADDRESS.	7		
Rotary Cable Rig		r Veri		<i>Ga</i> 5		
Total Vertical Depth (ft): 7320		Transit is to	3- 10- 10- 10- 10- 10- 10- 10- 10- 10- 10	a		
Total Measured Depth (ft): 7320			APR 17 20	2		
Fresh Water Depth (ft.): 163						
Salt Water Depth (ft.): 1260		WA	Oepainn	51 (i. Ui		
Is coal being mined in area (N/Y)?			nmenud f			
Coal Depths (ft.): 216						
Void(s) encountered (N/Y) Depth(s)						
	<u> </u>					
OPEN FLOW DATA (If more than two producing formation Producing formation MARCELLUS Pay 2 Gas: Initial open flow 380,000 MCF/d Oil: Initial open flow Final open flow 250,000 MCF/d Final open flow Time of open flow between initial and final tests 24 Static rock Pressure 2000 psig (surface pressure) af	zone depth (ft) 7 low 1200 Bb v Bb Hours	203 - 7308 I/d I/d	ta on separate sh	eet)		
Second producing formation Pay zon	ne depth (ft)					
Gas: Initial open flowMCF/d Oil: Initial open fl				•		
Final open flow MCF/d Final open flow	VBbl	/d				
Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) aff		e				
						
certify under penalty of law that I have personally examined a	and am familiar	with the inform	ation submitted o	on this documen		
If the attachments and that, based on my inchire of those inchiven the information is true, accurate, and complete.	iduals immedia	tely responsible	for obtaining the	e information I b		
nature into mation is true, accurate, and complete.	144	,1	11			
-/N/ FUM		_ <i>"</i>	-16-12			
Signature		I	Date			

Were core samples taken? Yes_	No_X	Were o	uttings caught during o	drilling? Yes X	No
Were Electrical, Mechanical or G	eophysical logs recorded	on this well? If	yes, please list ELEC	TRICAL	
NOTE: IN THE AREA BE FRACTURING OR STIMULA DETAILED GEOLOGICAL : COAL ENCOUNTERED BY T	ATING, PHYSICAL CH RECORD OF THE TO	ANGE, ETC. 2 OPS AND BO). THE WELL LOG TTOMS OF ALL F	WHICH IS A SYS	TEMATIC
Perforated Intervals, Fracturing, o	r Stimulating:				
PERFS 7296 -729024 HOLI	ES, 7288 - 7282 24 I	HOLES, 7246	6 4 HOLES, 7276	- 7268 16 HOLE	S
7264.5 - 7259 22 HOLES					
15927 BBL H2O, 16617 SLI	JRRY, 2000 SK 80/	100, 4014 40		- wet £26)	
AVG PRESURE 4487 AVG	RATE 76.8				
ISIP 2193			Office of		
Plug Back Details Including Plug	Type and Depth(s):		APR	1.7 7012	
					Exemple of the control of the contro
Formations Encountered: Surface:	То	p Depth		Bottom De	
GROUND EL	2072				
GREENBRIER BIG LIME	1354 - 1580			-	
INJUN	1580 - 1499	<u></u>		.	
BENSON	3870 - 3899				
ALEXANDER	4090 - 4370			·· ·····	
ELK	4370 - 6632				
GENESEO	7060 - 7096				<u> </u>
TULLY	7096 - 7134				
HAMILTON SHALE	7134 - 7203				
UPPER MARCELLUS	7203 - 7238	,,			
PURCELL	7238 - 7242		***************************************		
LOWER MARCELLUS	7242- 7308				
ONONDAGA	7308 - 7320				

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	04/12/2012	
API#;	47097-03812	_

Farm name: HAMNER, JAMES T. & JANET G.	Operator We	II No.: HAMNE	R CHURCH 1H WV0	428			
LOCATION: Elevation: 1894	Quadrangle: ALTON 7.5						
District: MEADE Latitude: 38 50 57.333 Feet South of Deg. Longitude 80 12 46.325 Feet West of Deg.		nS	ec.				
Company: MOUNTAIN V OIL and GAS					_		
Address: P.O. Box 470	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.			
BRIDGEPORT WV. 26330	20"		42'	SAND IN			
Agent: Mike Shaver	16		253	165 SK			
Inspector: Bill Hatfield	11 3/4		1718	650 SK			
Date Permit Issued: 08-30-2011	8 5/8		4198	764 SK			
Date Well Work Commenced: 11-05-2011	5 1/2		10294	805			
Date Well Work Completed: 02-11-12							
Verbal Plugging:							
Date Permission granted on:							
Rotary ✓ Cable Rig				Office o	THA Cas		
Total Vertical Depth (ft): 7188					e proj vojensejna		
Total Measured Depth (ft): 10212				APR	7 2012		
Fresh Water Depth (ft.): 51, 135, 144				1845 EV-1	ndrant of		
Salt Water Depth (ft.): 1160			F				
Is coal being mined in area (N/Y)? NO			L	1	t (glada) i i i markir i derbir		
Coal Depths (ft.): 70							
Void(s) encountered (N/Y) Depth(s)							
OPEN FLOW DATA (If more than two producing formati Producing formation MARCELLUS Pay Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow 950 MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure 2600 psig (surface pressure) a	zone depth (ft) lowl wB Hou	7170 - 7276 3bl/d bl/d s	data on separate s	heet)			
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) a	W B Hour fter Ho and am familia	urs ar with the info	ormation submitted	on this documen	It and		
all the attachments and that, based on my jequiry of those had that the information is true, accurate, and complete	viduals immed		ble for obtaining t	he information I l	oelieve		

Signature

Date

Were Electrical, Mechanica	al or Geophysical logs rec	corded on this well? I	f yes, please list_GE(OPHYSICAL
FRACTURING OR STI	MULATING, PHYSICA CAL RECORD OF T	AL CHANGE, ETC. HE TOPS AND BO	2). THE WELL LO	PERFORATED INTERVALS, OF WHICH IS A SYSTEMATIC FORMATIONS, INCLUDING H.
Perforated Intervals, Fractu	ring, or Stimulating:			
SEE ATTACHED SHE	:ET			gros uses also were 1885. Carry
				Office of Call & Gas
				APR 1 7 2012
Plug Back Details Including	g Plug Type and Depth(s)):	earns Epins Francis	ritomornal f. Jistel
KICK PLUG CEMEN	NT 7286 - 5300			
Francisco Francisco		T Dth-		D D I
Formations Encountered: Surface:		Top Depth		Bottom Depth
GROUND EL	1894			
BIG LIME	1283 - 1354			
30 FT	1885 - 1915			
5 TH SAND	2082 - 2105			
BENSON	3848 - 3870		·	
ELK	4370 - 6632		, .,	
GENESEO	7024 - 7060			
TULLY LS	7060 - 7100			
HAMILTON SHALE	7100 - 7170			
UPPER MARCELLUS	7170 - 7212			
PURCELL	7212 - 7216			
LOWER MARCELLUS	3 7216 - 7276		-	, 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
			· · · · · · · · · · · · · · · · · · ·	

Mountain V Oil & Gas Hamner Church 1H WV0428 47-097-03812

STAGE # 1 PERFS 10249 – 10247 12 SHOTS, 10159 – 10157 12 SHOTS, 10069 – 10067 12 SHOTS, 9978 – 9976 12 SHOTS

SLICK WATER AVG PSI 6947, AVG RATE 81.1, ISIP 3843, H20 7361 BBL, SLURRY 7753, 252SK 80/100, 1997 SK 40/70

APR 17 2012

STAGE # 2 PERFS 9906 – 9904 12 SHOTS, 9816 – 9814 12 SHOTS, 9726 9724 12 SHOTS, 9635 – 9633 12 SHOTS

SLICK WATER AVG PSI 6682, AVG RATE 79, ISIP 4144 H20 7278 BBL, SLURRY 7526, 251 SK 80/100, 2029 SK 40/70

STAGE # 3 PERFS 9563 - 9561 12 SHOTS, 9473 - 9471 12 SHOTS, 9383 - 9381 12 SHOTS 9292 - 9290 12 SHOTS

SLICK WATER AVG PSI 6813, AVG RATE 83.8, ISIP 4001 H20 7412 BBL, SLURRY 7830, 252 SK 80/100, 2030 SK 40/70

STAGE # 4 PERFS9220 - 9218 12 SHOTS, 9130 - 9128 12 SHOTS9040 - 9038 12 SHOTS 8949 - 8947 12 SHOTS

SLICK WATER AVG PSI 6729, AVG RATE 83, ISIP 4023 H20 7440 BBL, SLURRY 7855, 250 SK 80/100, 2047 SK 40/70

STAGE # 5 PERFS 8877 - 8875 12 SHOTS, 8787 - 8785 12 SHOTS8697 - 8695 12 SHOTS 8606 - 8604 12 SHOTS

SLICK WATER AVG PSI 6501, AVG RATE 84.23, ISIP 4028 H20 7367 BBL, SLURRY 7799, 250 SK 80/100, 1985 SK 40/70

STAGE # 6 PERFS8534 - 8532 12 SHOTS, 8444 - 8442 12 SHOTS, 8354 - 8352 12 SHOTS, 8263 - 8261 12 SHOTS

SLICK WATER AVG PSI 6430, AVG RATE 84.5, ISIP 4014 H20 7335 BBL, SLURRY 7641, 250 SK 80/100, 2024 SK 40/70

STAGE # 7 PERFS8191 - 8189 12 SHOTS 8101 - 8099 12 SHOTS 8011 - 8009 12 SHOTS 7920 - 7918 12 SHOTS

SLICK WATER AVG PSI 6408, AVG RATE 87.3, ISIP 4014 H20 7370 BBL, SLURRY 7676, 251 SK 80/100, 2011 SK 40/70 STAGE # 8 PERFS 7848 – 7846 12 SHOTS, 7759 – 7757 12 SHOTS, 7670 – 7668 12 SHOTS, 7580 – 7578 12 SHOTS

SLICK WATER AVG PSI 6114, AVG RATE 85, ISIP 3827 H20 7036 BBL, SLURRY 7312, 250 SK 80/100, 1780 SK 40/70

> received Office of Oil & Ges

> > APR 17 2082

vos Commissent ei Ensico encodal Procoden

DATE:	03/23/12
API#:	47-103-02579

Farm name: Jolliffe, Joe	Operator Wel	l No.: Joe Jolliff	e Unit i 1H	
LOCATION: Elevation: 1,358'	Quadrangle:	Littleton 7.5'		······································
District: Center Latitude: 7,200' Feet South of 39 Deg. Longitude 4,105' Feet West of 80 Deg.	County: Wet Min 32' Min	00.0Sec		
Company: Grenadier Energy Partners, LLC CT Corportion 707 Virginia Street East 15th Floor Charleston, WV 25301	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Agent: Dianna Stamper	24"	40'	40'	Grouted In
Inspector: Derek Haught	16"	425'	425'	445 cu.ft (CTS)
Date Permit Issued: 10/01/2010	11-3/4"	1629'	1629'	915 cu.ft (CTS)
Date Well Work Commenced: 06/01/11	8-5/8"	2706'	2706'	716 cu.ft (CTS)
Date Well Work Completed: 12/07/11	5-1/2"	11,040'	11,040'	2781 cu.ft (CTS)
Verbal Plugging:			:	
Date Permission granted on:				
Rotary X Cable Rig				
Total Vertical Depth (ft): 7501'				
Total Measured Depth (ft): 11,099'				
Fresh Water Depth (ft.): Est. 290'		·		
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 631'-636'				
Void(s) encountered (N/Y) Depth(s) N				
OPEN FLOW DATA (If more than two producing formatic Producing formation Marcellus Shale Pay 2 Gas: Initial open flow 6928 MCF/d Oil: Initial open flow Final open flow — MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure 4400 psig (surface pressure) af	zone depth (ft) lowB vBl Hours	<u>7646' - 10</u> 838' N bl/d bl/d s	ata on separate s	sheet)
Second producing formationPay zo			•	
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow		bl/d ol/d		* * *
Time of open flow between initial and final tests	Hours			**.
Static rock Pressurepsig (surface pressure) af	terHou	ırs		•
I certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of those individual that the information is true, accurate, and complete.	and am familia viduals immedi	r with the inforr ately responsibl	nation submitted e for obtaining	d on this document and the information I believe
Signature	$\overline{}$		Date .	

Were core samples taken? YesNo_X	Were cuttings caught during drilling? Yes X No
Were Electrical, Mechanical or Geophysical logs recorded on this we	ell? If yes, please list Yes - GR
NOTE: IN THE AREA BELOW PUT THE FOLLOWIN FRACTURING OR STIMULATING, PHYSICAL CHANGE, I DETAILED GEOLOGICAL RECORD OF THE TOPS AND COAL ENCOUNTERED BY THE WELLBORE FROM SURF.	ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC D BOTTOMS OF ALL FORMATIONS, INCLUDING
Perforated Intervals, Fracturing, or Stimulating:	
Perforations: Total Perforated Interval (7644' - 10,838' MD)	
Fluid: 89,461 bbl Slickwater pumped in 9 Stages	
Sand: 1,797,814 lbs 100 mesh sand, 1,886,210 lbs 40/70 sand	
Plug Back Details Including Plug Type and Depth(s): N/A	

Formations Encountered: Top Depth Surface:	/ Bottom Depth
See Attached Sheet	

Formation/Lithology	From	То
Sand & Shale	47	60
Red Rock	60	70
Sand & Shale	70	120
Red Rock	120	135
White Sand	135	148
Sand & Shale	148	155
Red Rock	155	168
Sand & Shale	168	240
Red Rock	240	279
Shale	279	500
Sand & Shale	500	631
Coal	631	636
Sand & Shale	636	800
Red Rock & Shale	800	850
Sand & Shale	850	1102
Coal	1102	1107
Sand & Shale	1107	1115
Sand	1115	1137
Sand & Shale	1137	1191
Red Rock	1191	1352
Sand & Shale	1352	1360
Red Rock & Shale	1360	1386
Red Rock	1386	1415
Red Rock Sand & Shale	1415	1438
Sand & Shale	1438	1550
Red Rock	1550	1581
Sand & Shale	1581	1738
Sand	1738	1801
Sand & Shale	1801	1864
Sand	1864	1964
Freeport Coal	1964	1976
Sand & Shale	1976	2063
Sand	2063	2240
Sand & Shale	2240	2262
Salt and Sand	2262	2300
Lime	2300	2365
Sand & Shale	2365	2369
Big Injun	2369	2400
Sand & Shale	2400	3135
Gordon	3135	3145
Sand	3145	3180
Sand & Shale	3180	6956
Sonya Shale	6956	7190
Genesee Shale	7190	7275
Geneseo Shale	7275	7301
Tully Lime	7301	7305
Hamilton	7305	7423
Marcellus Shale	7423	N/A

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE: April 11, 2012 API #: 47-103-02599

REVISED FOR COMPLETION

Farm nam	ne: Nice, Johne E. et al	Operator Well	No.:	Nice Unit A #1H				
LOCATIO	ON: Elevation: 1,344'	Quadrangle:	New	Martinsville				
	District: Magnolia	County:	We	etzel				
	Latitude: 14,200 Feet South of 39 Deg.	42 Min.		•				
	Longitude 9,890 Feet West of 80 Deg.	47Min.	Sec	•				
_(Company: Stone Energy Corporation							
	Address: 6000 Hampton Center, Suite B	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.			
L	Morgantown, WV 26505	20"	49'	49'	GTS			
	Agent: Tim McGregor	13.375"	1,135'	1,135'	1,144 - CTS			
<u> </u>	Inspector: Derek Haught	9.625"	2,414'	2,414'	1,019 - CTS			
]	Date Permit Issued: 9/21/2010 & 11/17/2010	5.5"		13,069'	3,090			
	Date Well Work Commenced: 11/8/2010	2.375"		6,917'				
	Date Well Work Completed: 11/11/2011							
	Verbal Plugging:	Well TD a	t 6,624' TVD I	ogged and Plu	gged Back			
	Date Permission granted on:	Kicke	d Well Off - S	ee Details on I	age 2			
	Rotary Cable Rig							
	Total Vertical Depth (ft): 6,539							
Ī	Total Measured Depth (ft): 13,069							
-	Fresh Water Depth (ft.): 83							
	Salt Water Depth (ft.): 1,791							
	Is coal being mined in area (N/Y)? No				-			
	Coal Depths (ft.): 1,022							
	Void(s) encountered (N/Y) Depth(s) N/A							
			3 3 3 2 2 1 3 -	.4	hoot)			
	FLOW DATA (If more than two producing formation Marcellus Pay 2	ons piease inclue zone depth (ft) 7		na on separate si	icei)			
	s: Initial open flow 1,200 MCF/d Oil: Initial open fl		ol/d					
	Final open flow 3,290 MCF/d Final open flow		1/d ·					
	Time of open flow between initial and final tests	64 Hours		•				
Sta	atic rock Pressure 2.950 psig (surface pressure) af	ter 101 Flour	rs .					
Sec	cond producing formation Pay zon	ne depth (ft)						
	s: Initial open flow MCF/d Oil: Initial open fl		ol/d					
	Final open flow MCF/d Final open flow Time of open flow between initial and final tests	vBb Hours	1/d	* * * * * * * * * * * * * * * * * * * *				
Sta	atic rock Pressure psig (surface pressure) af		rs					
				1	1 45.5 - 3			
	under penalty of law that I have personally examined a tachments and that, based on my inquiry of those indiv							
	nformation is true, accurate, and complete.	, milliodic		- and desimilarity to				
	i. A La		.,	04/2042				
	Signature			24/2012 Date				
	Signature	- I Walter Company Company						

Were core samples taken? YesNo	<u> </u>	Were cuttings caught during	ng drilling? Yes X No	
Were Electrical, Mechanical or Geophysica Ray, Mud Log, and CBL		well? If yes, please list Tri	ple Combo, MWD Gamn	na
NOTE: IN THE AREA BELOW P FRACTURING OR STIMULATING, P DETAILED GEOLOGICAL RECORI COAL ENCOUNTERED BY THE WEI	PHYSICAL CHANGE, D OF THE TOPS AI LLBORE FROM SUR	, ETC. 2). THE WELL LO ND BOTTOMS OF ALI	OG WHICH IS A SYSTEMA L FORMATIONS, INCLUE	ATIC
Perforated 19 intervals from 12640' to 7039'.	. Performed 19 individua	al stages of slick water stimu	ulation using 7222068 gals	
(81.1615%) fresh water, 52539 gals (0.7275	%) 15% HCl, 145853 ga	ls (2.0195%) 10 lb Guar Gel	I, 1145588 gals (15.8623%) 20	lb
Guar Gel, 107 gals (0.0015%) Corrosion Inh	ibitor, 1566 gals (0.0217	%) Bio-Cide, 5023 gals (0.0	696%) Friction Reducer, 540 g	als
(0.0075%) Scale Inhibitor, 8 gals (0.0001%)	Anti-Foam, 4955 gals (0	.0686%) Surfactant, 1206 lb	os (0.0020%) Gel, 21420 (0.035	56%)
Polymer Gel, 347 lbs (0.0006%) iron Stabiliz	er, 1564 gal (0.0217%)	Clay Stabilizer, 251 lbs (0.00	004%) Soda Ash, 818560 lbs 8	0/100
Sand, and 5368692 lbs 40/70 Sand. AvBDP	' = 5864 psi, AvTP = 694	6 psi, AvMTP = 9272 psi, A	vISIP = 4561, AvRate = 80.79	bpm
Plug Back Details Including Plug Type and	Depth(s): Well was pl	ugged back for kick off w	rith 3% Gel from 6624' to 66	06',
Class H cement plug (16 ppg) from 6600	ô' to 5030'.			
Formations Encountered:	Top Depth	. /	Bottom Depth	
Surface:			47	
See attached sheet for formations	encountered and th	eir depths.		
			<u> </u>	<u> </u>
	•			
			•	

Nice et al Unit A #1H API 47-103-02599 Stone Energy Corporation Pilot Hole

	Тор	Bottom (ft
	(ft TVD)	TVD)
Sandstone & Shale	Surface	1022
Pittsburgh Coal	1022	1027
Sandstone & Shale	1027	1992
Little Lime	1992	2034
Sandstone & Shale	2034	2097
Big Lime	2097	2291
Big Injun	2291	2334
Sandstone & Shale	2334	2701
Berea sandstone	2701	2714
Shale	2714	2947
Gordon	2947	2995
Undiff Devonian Shale	2995	5940
Rhinestreet	5940	6288
Cashaqua	6288	6402
Middlesex	6402	6418
West River	6418	6486
Geneseo	6486	6506
Tully limestone	6505	6538
Hamilton	6538	6564
Marcellus	6564	6622
Onondaga	6622	6626
Driller depth	6624	
Logger depth	6626	

Depths Taken From Electric Log For Pilot Hole

Nice et al Unit A #1H API 47-103-02599 Stone Energy Corporation Horizontal

	Top	Top (f	t	Bottom (ft	Bottom (ft
	(ft TVD)	MD)	_	TVD)	MD)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027		. *	1992	
Little Lime	1992		*	2034	
Sandstone & Shale	2034		*	2097	
Big Lime	2097		*	2291	
Big Injun	2291		*	2334	
Sandstone & Shale	2334		*	2701	
Berea sandstone	2701	-	*	2714	
Shale	2714		*	2947	
Gordon	2947		*	2995	
Undiff Devonian Shale	2995		*	5945	5946
Rhinestreet	5945	5946	~	6274	6290
Cashaqua	6274	6290	~	6406	6450
Middlesex	6406	6450	~	6419	6470
West River	6419	6470	~	6486	6590
Geneseo	6486	6590	~	6507	6642
Tully limestone	6507	6642	~	6534	6744
Hamilton	6534	6744	~	6562	6830
Marcellus	6562	6830	~	6539	13069
TD	6539	13069			

^{*} From Pilot Hole Log

[~] From MWD Gamma Log

DATE:	March 8, 2012
API#:	47-103-02626

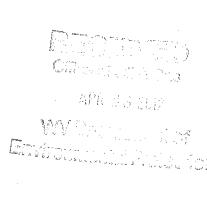
Farm name: West Virginia Division of Natural Resources	Operator Well	No.: WVDNR 1	03	
LOCATION: Elevation: 805'	Quadrangle: _	Center Point		
District: Grant	County: Wetze	əl		
Latitude: 39.500833 Feet South of 39 Deg.		33.41 Sec		
Longitude -80.617922 Feet West of 80 Deg.	38 Min	88.21 Sec	-	•
Company: Triad Hunter, LLC				
P.O. Box 430	Casing &	Used in	Left in well	Cement fill
Address: Reno, Ohio 45773	Tubing	drilling	<u> </u>	up Cu. Ft.
	20"	44'	44'	
Tigoria.	 	1		722 ou ft
Inspector: David Scranage	13 3/8"	795.55'	795.55'	732 cu. ft.
Date Permit Issued: 01/28/2011	9 5/8"	3117.5'	3117.5'	790.6 cu. ft.
Date Well Work Commenced: 03/21/2011	5 1/2"	12288.38'	12288.38'	2772 cu. ft.
Date Well Work Completed: 09/18/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 7023'				
Total Measured Depth (ft): 12335'				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? No		·		
Coal Depths (ft.): 225'-340', 380'-394', 590'-598'				
Void(s) encountered (N/Y) Depth(s) None				
	!			
OPEN FLOW DATA (If more than two producing formatic			ita on separate s	heet)
Producing formation Marcellus Shale Pay Gas: Initial open flow 2350 MCF/d Oil: Initial open f	zone depth (ft)	bl/d		
Final open flow 5765 MCF/d Final open flow	v^0 Bb			and the second of the second of
Time of open flow between initial and final tests 112				
Static rock Pressure 2799 psig (surface pressure) at		rs	Ca	
Second producing formationPay zo	ne depth (ft)			APR 20 gap
Gas: Initial open flow MCF/d Oil: Initial open f		bl/d	1 √√ <	The second second
Final open flow MCF/d Final open flow		ol/d		·
Time of open flow between initial and final tests			ر يُعَيِّ وَيُ لِي وَ وَحَمَّا	en e
I certify under penalty of law that I have personally examined				
all the attachments and that, based on my inquiry of those indi- that the information is true, accurate, and complete.	viduais immedi	ately responsibl	e for obtaining t	ne miormation i beneve
usat the information is true, accurate, and complete.				
Lou Vlay			5-12	
Signature			Date	

WVDNR 1103 Perf Spacing for 16 stages

Stage Length:
Num Clusters:
Dist between Perfs:
Perf length:
Stages:
Start Depth:
90 @:

307 4 o 5 77' 3' 16 12280 7479'

Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage											
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1			
7667	7982	8292	8596	8903	9210	9517	9824	10131	10438	10745	11052	11359	11660	11955	12280	Plug Depth		
7638'-7635'	7945'-7942'	8252'-8249'	8559'-8556'	8866'-8863'	9173'-9170'	9480'-9477'	9787'-9784'	10094'-10091'	10401'-10398'	10708'-10705'	11015'-11012'	11322'-11319'	11629'-11626'	11936'-11933'	12260'-12257'	Interval 1		1
7561'-7558'	7858'-7855'	8175'-8172'	8482'-8479'	8789'-8786'	9096'-9093'	9403'-9400'	9710'-9707'	10017'-10014'	10324'-10321'	10631'-10628'	10938'-10935'	11245'-11242'	11552'-11549'	11859'-11856'	12198'-12195'	Interval2		
7484'-7481'	7791'-7788'	8098'-8095'	8405'-8402'	8712'-8709'	9019'-9016'	9326'-9323'	9633'-9630'	9940'-9937'	10247'-10244'	10544'-10551'	10861'-10858'	11168'-11165'	11475'-11472'	11782'-11779'	12136'-12133'	Interval 3		
7407'-7404'	7714'-7711'	8021'-8018'	8328'-8325'	8635'-8632'	8942'-8939'	9249'-9246'	9556'-9553'	9863'-9860'	10170'-10167'	10477'-10474'	10784'-10781'	11091'-11088'	11398'-11395'	11705'-11702'	12074'-12071'	interval 4		
															12013'-12010'	Interval 5		
310	315	310	304	307	307	307	307	307	307	307	307	307	301	295	325	Stage Length	FT	
6888	7162	7013	7299	7039	7267	7224	6953	7050	6938	7020	6872	6817	7268	7388	7420	Avg Treating Pressure	PSI	
7173	7467		7990	7459	7549	7412	7331	7429	7386	7880	7691	7782	7844	7604	7956	Max Pressure	PSI	
83.9	81.8	83.1	83.2	84.4	84.3	85.2	83.5	86.4	83.8	84.3	85.4	86.2	85	85.4	84.5	Avg Rate	BPM	
86.1	84.3		86.5	85.7	87.2	86.3	86.8	87.7	85.8	85.5	87.5	87.6	86.8	86.8	85.2	Max Rate	BPM	
9893	9638	9654	9597	9583	9528	10133	9924	10124	10106	10171	10154	10089	10106	10210	10067	Fluid Vol	bbls	
427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427000	427200	Total Sand	lbs	



State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	March 8, 2012
API#:	47-103-02627

Farm name: West Virginia Division of Natural Resources Operator Well No.: WVDNR 1104 LOCATION: Elevation: 805 Quadrangle: Center Point County: Wetzel District: Grant Latitude: 39.50923 Feet South of 39 Min. 33.24 Deg. 30 Sec. Longitude -80.63561 Feet West of 80 Deg. 38 Min. 88.22 Sec. Triad Hunter, LLC Cement fill Casing & Used in Left in well P.O. Box 430 drilling Address: **Tubing** up Cu. Ft. Reno, Ohio 45773 Kimberly Arnold 20" 44' 44' Agent: Inspector: David Scranage 13 3/8" 795.55' 795.55' 732 cu. ft. Date Permit Issued: 01/28/2011 9 5/8" 3116.19 3116.19 790.6 cu. ft. Date Well Work Commenced: 03/23/2011 5 1/2" 11792.68' 11792.68' 3257.28 cu. ft. 09/19/2011 Date Well Work Completed: Verbal Plugging: Date Permission granted on: Rotary Cable Rig Total Vertical Depth (ft): 6980 Total Measured Depth (ft): 12663' Fresh Water Depth (ft.): Salt Water Depth (ft.): Is coal being mined in area (N/Y)? No Coal Depths (ft.): 225'-340', 380'-394', 590'-598' Void(s) encountered (N/Y) Depth(s) None OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet) Producing formation Marcellus Shale Pay zone depth (ft) 7023' Gas: Initial open flow 2874 MCF/d Oil: Initial open flow 0.5 Bbl/d Final open flow 3941 MCF/d Final open flow 19.1 Bbl/d Time of open flow between initial and final tests 168 Hours Static rock Pressure 2463 __psig (surface pressure) after _168 Hours Second producing formation_ Pay zone depth (ft) Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d MCF/d Final open flow Bbl/d Final open flow_ Time of open flow between initial and final tests_ Hours _Hours Static rock Pressure psig (surface pressure) after

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

3 2 - 1 Z

Date

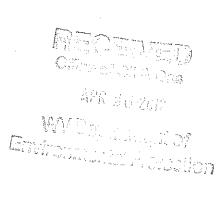
Were core samples taken?	YesNo	Were cuttings caught during drilling	? YesNo
Were Electrical, Mechanica	## 150' sand \$20'-580' shale \$2465'-2470' Berea \$2470'-2650' shale \$580'-590' sand \$2470'-2650' shale \$590'-598' shale \$2650'-2710' Gordon		
FRACTURING OR STIN	MULATING, PHYSICAL CHANGE, I CAL RECORD OF THE TOPS AN	ETC. 2). THE WELL LOG WHIC D BOTTOMS OF ALL FORM	CH IS A SYSTEMATIC
Perforated Intervals, Fractur	ring, or Stimulating:		
Please refer to attache	d perforation and fracture treatme	ent report	
1 10000 10101 10 0100110	<u> </u>		
			N490-11
Plug Back Details Including	g Plug Type and Depth(s):		
Formations Encountered:	Top Depth		Bottom Depth
Surface:			
0'-35' sand	520'-580' shale		
35'-50' shale	580'-590' sand		· · · · · · · · · · · · · · · · · · ·
50'-65' sand			
65'-185' shale	598'-601' coal	2710'-2805' shale	
185'-225' sand	601'-700' shale	2805'-2815' Fourth Sd	
225'-340' shale	700'-760' sand	2815'-2900' Shale	
340'-343' coal	760'-960' shale	2900'-2905' Fifth Sd	
343'-355' shale	960'-1600' sand and shale	2905'-6780' Devonian Sh	ale
355'-380' sand	1600'-1655' sand	6780'-6804' Hamilton	
380'-394' shale	1655'-1795' shale	6804'-6906' Tully	
394'-395' coal	1795'-1810' Little Lime	6906' Marcellus	
395'-415' shale	1810'-1835' Pencil Cave		
415'-430' sand	1835'-1885' Big Lime		En and the second
430'-460' shale	1885'-2085' Big Injun		
460'-520' sand	2085'-2465' shale		

WVDNR 1104 Perf Spacing for 16 stages

Num Clusters:	Stage Length:	
4 tc	26	

Dist between Perfs:
Perf length:
Stages:
Start Depth:
90 @: 266' 4 to 5 67' 3' 16 11875 8021'

Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage										
16	15	14	13	12	11	10	9	∞	7	6	5	4	ω	2	1		
7988	8260	8523	8792	9058	9328	9590	9846	10122	10388	10654	10920	11186	11448	11718	11875	Plug Depth	
7963'-7960'	8229'-8226'	8495'-8492'	8761'-8758'	9027'-9024'	9293'-9290'	9559'-9556'	9825'-9822'	10108'-10105'	10357'-10354'	10623'-10620'	10889'-10886'	11155'-11152'	11421'-11418'	11687'-11684'	11774'-11771'	Interval 1	
7896'-7893'	8162'-8159'	8428'-8425'	8694'-8691'	8960'-8957'	9226'-9223'	9492'-9489'	9758'-9755'	10024'-10021'	10290'-10287'	10556'-10556'	10822'-10819'	11088'-11085'	11354'-11351	11620'-11617'	11769'-11766'	Interval2	
7829'-7826'	8095'-8092'	8361'-8358'	8627'-8624'	8893'-8890'	9159'-9156'	9425'-9422'	9691'-9688'	9957'-9954'	10223'-10220'	10489'-10486' 10422'-10419	10755'-10752' 10688'-10685	11021'-11018' 10954'-10951	11287'-11284' 11220'-11217	11553'-11550' 11486'-11483	11763'-11760'	Interval 3	
7762'-7759'	8028'-8025'	8294'-8291'	8560'-8557'	8826'-8823'	9092'-9089'	9358'-9355'	9624'-9621'	9880'-9877'	10156'-10153'	10422'-10419'	10688'-10685'	10954'-10951'	11220'-11217'	11486'-11483'	11758'-11755' 11752'-11749	Interval 4	
															11752'-11749'	Interval 5	
266	272	263	269	266	270	262	256	276	266	266	266	266	262	270	157	Stage Length	FT
6930	7034	7704	7416	7525	8303	7689	7514	8305	7269	7222	7626	7882	7777	7477	8804	Avg Treating Pressure	PSI
7351	7207	8377	7912	8123	8959	7961	8114	8494	8051	7923	7923	8642	8196	7865	9150	Max Pressure	PSI
85.5	86	83.7	85.6	84.9	80.4	85.4	86	64.7	82.5	83.5	81.2	72.8	87.5	82.1	58.5	Avg Rate	вРМ
85.7	87	86.8	86	86.9	83.4	86.7	88.55	79.4	85.4	87	83.5	80.1	83.7	83	63	Max Rate	вРМ
9782	9598	9585	9599	9567	11096	9933	10077	7487	10160	10320	10132	13121	10178	10089	4995	Fluid Vol	bbls
427000	427000	427000	427000	427000	427000	427000	427000	2000	427000	427000	427000	427000	427000	427000	3400	Total Sand	lbs



DATE:	03/29/12
API#:	47-103-02683

Farm name: Henderson, Howard M.	Operator Well No.: North Henderson Unit 1H			
LOCATION: Elevation: 1,356'	Quadrangle:	Littleton 7.5'		
District: Center	County: Wet	zel		
Latitude: 5,435' Feet South of 39 Deg. Longitude 10,241' Feet West of 80 Deg.	42 Min			
Longitude 10,241' Feet West of 80 Deg.	32' Min	ı. <u>30.0</u> Se	c.	
Company: Grenadier Energy Partners, LLC				N. T. T. W.
CT Corportion 707 Virginia Street East 15th Floor Address: Charleston, WV 25301	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Agent: Dianna Stamper	24"	40'	40'	Grouted in
Inspector: Derek Haught	16"	429'	429'	432 cu.ft (CTS)
Date Permit Issued: 06/27/2011	11-3/4"	1647	1647'	1129 cu.ft (CTS)
Date Well Work Commenced: 09/14/2011	8-5/8"	2722'	2722'	738 cu.ft (CTS)
Date Well Work Completed: 12/19/2011	5-1/2"	13,110'	13,110'	2336 cu.ft (CTS)
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Vertical Depth (ft): 7531'				
Total Measured Depth (ft): 13,140'				
Fresh Water Depth (ft.): Est. 285'				
Salt Water Depth (ft.): N/A			<u> </u>	
Is coal being mined in area (N/Y)? N	*			
Coal Depths (ft.): N/A		<u> </u>		
Void(s) encountered (N/Y) Depth(s) N				
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Shale Pay zo Gas: Initial open flow 11687 MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure 4450 psig (surface pressure) after	one depth (ft) 7 ow Bb Bbl Hours	548' - 13044' N ol/d l/d	ata on separate si ID (7531' TVD)	neet)
Second producing formation Pay zone Gas: Initial open flow MCF/d Oil: Initial open flo Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) after	Bb Bbl Hours	/d		
certify under penalty of law that I have personally examined and the attachments and that, based on my inquiry of those individual the information is true, accurate, and complete. Signature	nd am familiar	with the inform	nation submitted to for obtaining the	on this document and ne information I believe
o signature		ļ	vate	

Were core samples taken? YesNoX	W		, Y ,,
	~	caught during drilling?	
Were Electrical, Mechanical or Geophysical logs recorded	on this well? If yes, plea	ase list Yes - Gamma R	ay
NOTE: IN THE AREA BELOW PUT THE FO FRACTURING OR STIMULATING, PHYSICAL CH DETAILED GEOLOGICAL RECORD OF THE T COAL ENCOUNTERED BY THE WELLBORE FRO	IANGE, ETC. 2). THE OPS AND BOTTOMS	WELL LOG WHICH OF ALL FORMAT	IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stimulating:			
Perforations: Total Perforated Interval (7548' - 13044'	MD)		
Fluid: 149,128 bbl Slickwater pumped in 15 Stages			
Sand: 3,275,101 lbs 100 mesh sand, 3,570,053 lbs 40	0/70 sand		
			
			MF-W-W-
Plug Back Details Including Plug Type and Depth(s): N/A			
The state of the s			1000 1111111111111111111111111111111111
Formations Encountered: To Surface:	op Depth /	E	Bottom Depth
See Attached Sheet			
oce / titaerieu Orieet			
	- ,		

·			
		· · · · · ·	
	. 11.00		
			,

Formation/Lithology	From	То
Shale	47	80
Red Rock	80	120
Sand & Shale	120	130
Red Rock	130	206
Sand & Shale	206	268
Red Rock	268	285
Sand & Shale	285	405
Red Rock	405	420
Sand & Shale	420	1080
Shale	1080	1095
Sand	1095	1115
Sand & Shale	1115	1230
Sand	1230	1253
Sand & Shale	1253	1455
Lime	1455	1463
Red Rock	1463	1515
Sand	1515	1554
Shale	1554	1720
Sand	1720	1782
Sand & Shale	1782	1803
Sand	1803	2130
Sand & Shale	2130	2323
Lime	2323	2358
Big Lime	2358	2460
Injun	2460	2611
Sand & Shale	2611	3228
Gordon	3228	3265
Sand & Shale	3265	7265
Genesee Shale	7265	7318
Geneseo Shale	7318	7342
Tully Lime	7342	7346
Hamilton	7346	7466
Marcellus Shale	7466	N/A